BUSINESS WEST



START OF WAR 1939

AGO

ed for new a rced a the la pay-

up por open i llions reasur savin oratio , exce we tr rutes? revenu need st reco olunta ot its е таіх o mas

for re

e alread

gh jo uitably a admin ? Ho effect of re tough

at comb to be is no nd Coures.

at the most; the mply the exploration induces ogressive at sale an new a mass at the mass at t

Wed SINESS

DEX

PUBLISHED BY THE MCGRAW HILL PUBLISHING COMPA

TWENTY CENTS

TEN YEARS' WORK IN TWO is the story behind Butadiene and Styrene for Synthetic Rubb





e Distillation Columns separate
and purify the Butadiene



DE WISH YOU could see the first of the WE WISH YOU could see the me. of the Government's large integrated synthetic rubber projects, complete at one location. What you see here is a night scene and some daytime views of the immense butadiene and styrene plants that CARBIDE AND CARBON CHEMICALS CORPORATION, a Unit of UCC, has designed and built at Institute, West Virginia, for the Government's Defense Plant Corporation and is operating for the Rubber Reserve Company.

Carbide and Carbon also has completed another butadiene plant at Louisville, Kentucky -and has released plans to Koppers United Company for a third butadiene plant near Pittsburgh, Pennsylvania.

Butadiene had never been manufactured in the United States in large quantities before the plants at Institute went into production. The task involved in providing the mass production facilities the Government asked for was an unusual one ... but one that took full advantage of the experience and processes developed by Carbide and Carbon.

Generally, it requires seven to ten years for a company to take a process developed in the laboratory, put that process to test in a pilot plant, iron out production problems, design a full-size plant, and then actually build the

plant and go into mass production.

By working at top speed for twenty months -Carbide and Carbon telescoped research, development, engineering, and construction work that would have taken 10 years in normal times. In this short time laboratory research was translated through chemical engineering into larger and more modern facilities for producing the chemicals for synthetic rubber than existed anywhere else in the world.

This achievement could never have been possible had it not been for the years of research and experimentation which, prior to the emergency, Carbide and Carbon had devoted to the production of synthetic-or manmade-chemicals of the organic series.

Business men, technicians, teachers, and others are incited to send for the book "Butadiene and Styrene for Buna S Synthetic Rubber from Grain Alcohol" which explains what these plants do, and what their place is in the Government's rubber program.

BUTADIENE, (bew-ta-dy-een). A highly volatile liquid which is the principal chemical in the manufacture of Buna synthetic rubbers.

STYRENE, (stý-reen). A liquid, like bensene, but having the property of reacting within itself to form a solid, clear, plastic mass. It is used as one of the principal ingredients of Buna S synthetic rubber.

BUY UNITED STATES WAR BONDS AND STAMPS

CONSTRUCTION RECORD AT INSTITUTE

June 25, 1941



Carbide and Carbon submits defin production estimates



Design work starts on 10,000 ton year butadiene unit



Dec. 7, 1941



Der 15 1941



Design "frozen" for 20,000-ton-p-ye alcohol-ta-butadiene plant



Japanese occupy Malay Peninsula Dutch East Indies, cut off about 90 p cent of U.S. natural rubber supp



Construction on the first two 20.00 ton-a-year butadiene units starti Institute, W. Va.



Construction of 25,000-ton-a-year rene plant starts.



Rubber Survey (Baruch) Comm

report accepted.

an. 29, 1943



First large-scale, alcohol-ta-butade unit goes into operation two mor ahead of schedule.



First tank car of butadiene from gro alcohol shipped from Institute plant

1943



First styrene unit begins operation.

ay 25, 1943



Fourth 20,000-ton-a-year butadier unit begins operation at Institute plant

UNION CARBIDE AND CARBON CORPORATION

30 East 42nd Street Use New York 17, N. Y.

ALLOYS AND METALS

Electro Metallurgical Co Haynes Stellite Company United States Vanadiu

ELECTRODES, CARBONS & BATTERIES

BANKING SERVICE FOR THE JOB AHEAD

Since no man can foresee how long the war will last, it is apparent that industrial management is faced with a two-fold problem. First is the paramount necessity for maximum war production to meet the needs of the armed forces. As Under-Secretary of War Patterson recently said, "The most difficult job of all lies ahead—the drive to victory."

Second only to meeting these vital war-production goals is the job that lies ahead in projecting plans for reconversion or production for civilian use. This job also must be faced now, if maximum post-war employment is to be assured for those at home and for the fighting men when they return.

In meeting maximum production goals, in adjusting production to changing war demands, and in planning for peace-time operations, there are many problems that require banking service. Officers of this Bank are prepared, through extensive experience in handling war-production loans and through practical study of post-war problems, to work with business executives in planning both present and future requirements. We cordially invite your inquiry.

BANKERS TRUST COMPANY

NEW



YORK

Rubb



T-I-M-BER ?"

Timber indeed! Today the lumberjack's warning shout means timber for shipbuilding! For military trucks, barges, aircraft! For housing troops and war workers!

Last year the lumber industry furnished more new cross-ties to war-busy Class I railroads than in any year since 1931. Just one reason why nonmilitary lumber supplies are now virtually shut off. By the end of this year, more than a third of 1943's estimated lumber consumption of 32 billion board feet will have gone exclusively into crates and boxes for America's angry torrent of fighting equipment,

To meet the immense war demands for its products, the lumber industry is avoiding needless power interruptions in its mills. For when power fails, production stops.

Aiding many of America's lumber companies in their fight against accidents to boilers, turbines, engines and various pressure vessels is the 77-yearold Hartford Steam Boiler Inspection and Insurance Company.

Dedicated to the task, Hartford Steam Boiler and its country-wide staff of experienced engineers and inspectors are striving to detect powermachinery weakness in lumber and other mills before accidents can happen! Never was the

assignment a more welcome duty or greater privilege!



Covers: Bailers · Pressure Vessels · Steam, Gas and Diesel Engines · Turbines · Electrical Equipment

THE HARTFORD STEAM BOILER INSPECTION AND INSURANCE COMPANY . Hartford, Connecticut

BUSINESS WEEK

WHERE TO FIND IT	
Washington Bulletin	
rightes of the vveek	
The Outlook	
General News	
ine war—and business Abroad	
Canada	
War Business Checklist	
Production	
New Products	
Food	
Marketing	*****
Labor	
Finance	
The Trading Post	
The Trend	

ermar Collap ithin th ar prod It is the ashing Ficials t e Army demai hedules ill stop

Unless

ore ma ects, we

nost end

tocks to dds are

ore tar ms. A

ut to a

Produ

hree li quipme

ome (

Many efore t

eel tha

ate on tart ad

Incide

gree or

the]

one hi

east is

ing that ear aft

What

For

ew cu For

hanges

As o

ng ma inder

r enti

how a

WPB nd Na which

ecaus

ion. z

ree

From

etern

THE PICTURES

Cover—Sovfoto; 20—Wide World; 34—Acm 40—Harris & Ewing; 44—(lower) Int. New (upper) Acme; 56—Int. News; 62—Chai Phelps Cushing; 66—Consolidated Vultee; 62-Charle (below, left), 86—Wide World; 88—Haris a Ewing; 96, 98, 101, 106—Acme; 108—Wide World.

THE STAFF

Publisher, Willard Chevalier . Manager, Pa Montgomery · Editor, Ralph Smith · Manage Editor, Louis Engel • Assistant Managing Edit Clark R. Pace • News Editors, Richard Land Raymond A. Dodd (Illustration).

Foreign, John F. Chapman Production,

• Law, J. A. Gerardi • Finance, Ingham • Marketing, Phyllis Wh McK. Gillingham • Marketing, Phyllis Wai (Washington) • Industry, Clarence Judd (Cle-land) • Economics, Sanford S. Parker • Lib M. S. Pitzele • Washington, Irvin D. Foos, Joi Cobbs, Stuart Hamilton.

Editorial Assistants, Brownlee Haydon (Assista Foreign Editor), John Hoffman, C. Arthur Lan Richard M. Machol, M. J. Montgomery, Arth Richter, Margaret Timmerman, Doris I. White

Statistician, Alice McFall • Librarian, Ruth Wa Editorial Bureaus—Chicago, Arthur Van Wa singen, Mary Richards • Detroit, Stanley I singen, Mary Richards • Detroit, Stanley Brams • San Francisco, Cameron Robertson Washington, McGraw-Hill Bureau, Staff con spondents throughout the United States, and Canada, Latin America, Great Britain and t Latin America, Great Britain and the Soviet Union.

District Managers - Atlanta, R. C. Maultsby Boston, Nelson Bond • Chicago, Arthur Cawardine, R. N. Whittington • Cleveland, E. I. DeGraff, S. D. R. Smith • Detroit, C. W. Crandall • Los Angeles, R. N. Phelan • Ne York, H. E. Choate, J. R. Hayes, J. H. Stewson • Philadelphia, H. C. Sturm • San Franciso I. W. Otterson • S. Louis G. C. S. I. W. Otterson . St. Louis, G. G. Sears.

BUSINESS WEEK . OCTOBER 23 . NUMBER 73 (with which is combined The Annalist and the Magazine of Business). Published weekly by Magazine of Business). Published weekly by McGraw-Hill Publishing Company, Inc., James H. McGraw, Founder and Honorary Chairman OFFICE, 99-129 PUBLICATION PUBLICATION
BROADWAY, ALBANY 1, NEW 1080EDITORIAL AND EXECUTIVE OFFICES.
330 W. 42ND ST., NEW YORK 18, N. Y.
James H. McGraw, Jr., President; Howard
Ehrlich, Executive Vice-President; Curtis W. Ehrlich, Executive Vice-President; Curtis W. McGraw, Treasurer; J. A. Gerardi, Secretary. Allow ten days for change of address. About sub scriptions address: J. E. Blackburn, Jr., Director of Circulation, Business Week, 330 W. 42nd Street, New York 18, N. Y.

Subscription rates—United States, Mexico, and Central and South American countries \$5.00 a year. Canada \$5.50 for a year. Entered as second class matter December 4, 1936 at the Post Office at Albany, N. Y., under the Act of March 3, 1938 at the Post Office at Albany, N. Y., under the Act of March 3, 1938 at the Post of March 3, 1938 at t 1879. Return postage guaranteed. Printed in U. S. A. Copyright 1943 by the McGraw-Hill Publishing Company, Inc.

Business Week • October 23, 1943

EE WASHINGTON BULLETIN WHAT THE WASHINGTON NEWS MEANS TO MANAGEMENT

ermany Out-50% Off

Collapse of Germany-if it comes othin the next year-will turn the U. S.

ar production program inside out.

It is the considered opinion of high Vashington production and military ficials that, as soon as Germany quits, he Army and Navy will cut their overlements at least 50% below present chedules. In some lines, production ill stop dead.

Unless the European war eats up nore material than anybody now exects, we shall come out of it with alnost enough in depots and war theatre tocks to take care of the Japanese. The dds are that the Army won't want any nore tanks, bombs, artillery, or small ms. Ammunition production will be ut to a fraction of present output. Production will concentrate largely in

tree lines-aircraft, ships, and signal quipment.

ome Cuts Sooner

nt. News —Charle ultee;

Managi Managi ing Edit ard Lam

ction, V

nance, V lis Whi ld (Clev • Labo

(Assistation Lami y, Arthr White outh Wal Van Vli anley H certson

off com

hur Ca d, E. E C. W • Net · Steven

4BER 738

and the ekly by James nairman

ORTH

YORK FICES, N. Y.

Howard tis W.

ecretary. out sub-ector of

Street,

second Office arch 3, ted in

aw-Hill

1943

Many of these changes will come efore the fighting in Europe actually tops. As soon as production officials tel that they can set a fairly definite lite on the German collapse, they will tel adjusting in anticipation.

Incidentally, military authorities don't gree on how long it will take to wind p the Japanese war once we get started. One high officer, whose optimism at east is not based on ignorance, is bet-ing that Japan will go under within a ear after Germany quits.

What It Means

For war contractors, all this means aw cutbacks, new changes in schedules.

For the WPB, it portends more hanges in personnel and policies. As of now, however, WPB is crowding management to get better results, ander threat of weeding out managers ar entire staffs in plants which fail to how an improvement. ow an improvement.

The Truman committee is backing WPB on this, feeling that the Army and Navy tend to cover up situations in which they are at least partly to blame ecause of bad design and bad inspec-ion. Aircraft plants will be the first to tel the heat.

ree Speech for Management

From now on, you can look for more pirited electioneering in plant polls to etermine what union, if any, holds collective bargaining privileges under National Labor Relations Board rules.

This is one certain result of the Supreme Court's refusal to review a lower court ruling that an employer is within his rights in expressing himself about the representation choice set be-

fore his employees.

Although the high court issued no ruling in the American Tube Bending Co. case, the presumption is that the Second Circuit Court's decision was allowed to stand because of constitutional guarantees of free speech. That decision unqualifiedly sanctioned management's right to make known its views on unionism, but provided that, to be legal, such expressions must not be coercive and the company involved must abide by the election result. NLRB has long held any expression of opinion by an employer to be an unfair labor practice under the Wagner act.

Legal Battle Ahead

Not only more active propagandizing of employees by both unions and management will result from the judicial action, but further litigation is assured. The bench will be called on to write precise definitions of "coercive expressions" as organized labor seeks to limit the practical effect of this momentous employer victory.

Termination Trouble

Comptroller General Lindsay C. Warren came up to bat this week and made the most of it.

Before the House Military Affairs Committee, Warren enthusiastically elaborated on his previous statement challenging the authority and ability of the procurement agencies to handle termination of government contracts. As evidence, he cited a list of claimsranging from false teeth for an employee to the expenses of a company barbecue -allowed by the Army as costs under

Other Washington reports in this issue include: A Whip to Crack?, page 14; Hard Lines to Hold, 17; Re-serves Assured, 18; War Changes the U. S. Debt Picture, 19; Ceilings Approved, 77; Corn for War, 78; Shoes Stretched, 94; Without Redress, 96; Mediation Mired, 98; Incentive Guides, 102; Total Job Freeze, 108. Washington trends of importance to management are also discussed weekly in The Outlook and other regular departments of Business Week.

cost-plus-fixed-fee contracts, but turned down by the General Accounting

The Army's answer is that you can't run a \$100,000,000,000 spending program without letting a set of false teeth slip by here and there, but it knows that won't take the curse off Warren's specific examples,

Procurement officials now expect the Comptroller General to swing the House committee, possibly even the whole House, but they count on the Senate to back them up. In the end, Congress probably will work out a compromise (page 14).

Renegotiation Unchanged

Creation of a joint price adjustment board to set renegotiation policy for all the procurement agencies may take some of the sting out of congressional criticism, but it won't make much difference to war contractors.

The Army, Navy, and Maritime Commission have been coordinating their policies informally since renegotiation started. The new board just makes

it official.

Aircraft-Now

October aircraft production will be the best yet-over 8,000 planes, all of them flyaways. Extensive design changes accounted for the drop in September output. Plane production is due to pass 9,000 a month soon, but it won't hit its peak until early next summer. On a weight basis, output is scheduled to increase another 50%.

-And Postwar

Common opinion among government aircraft officials is that postwar demands for aircraft won't use more than 5% of present capacity. They figure that closing government plants will eliminate 50%. Another 25% will reconvert to other lines of production. That leaves 25% of present capacity, which will have to contract to the anticipated 5% utilization-"a very disorderly process."

Subsidy Rebellion

It will take more than a message from the President to halt the drive against food subsidies in Congress. Sentiment for the antisubsidy bill reported by the House Banking & Cur-



THE AMERICAN BRASS COMPANY, famous name in brass, in producing tubing for she condensers overcame a difficult lubrication problem with a Shell Industrial Lubrican

S-T-R-E-T-C-H-I-N-G BRASS

A SOLID, CAST, BRASS BILLET is perforated and stretched 25 times its original length and becomes a flawless length of seamless tubing for a ship's condenser. The condensers of a Victory ship often require as much as 16,000 pounds... over 7 miles of tubing!

With 16,000,000 tons of new shipping to be built this year, you can readily visualize the vast quantities of tubing vitally needed for the condensers of new ships alone.

Shell contributes to The American Brass Company production by supplying the Industrial Lubricant that makes it possible to work brass into condenser tubing. To take a 2-foot billet of tough, solid brass and transform it into 50 feet of thin walled tube involves tremendous force and friction. Before each of the series of drawing operations, which are performed cold, tube

blanks, or tubes, are dipped into Shelldraw Compound.

Shelldraw Compound not only prevents metalto-metal contact, but because of its unique cooling properties eliminates excessive expansion of both die and tubing. Size tolerances are maintained...die wear is reduced...finish is superior.

As war production sets new records, proper lubrication becomes even more vital. Yesterday's solution is seldom good enough for today.

Are you sure your plant has the benefit of all that is new in lubrication as it develops?



First oil refinery to win the Army-Navy "E"—Shell's Wood River Refinery SHEL

harel

Despite tain the aders who onal feed eans of

> Pe of th ingto above ous : thing WTOI (BW esty, sour. Th Prent predi DIOVE won' anyti Ex dicti

> > inter

that,

dent to a rema

inter actu Offi

tion S

rega Tha

son mal 3-A

ing

3-A 000 call

cre

mii be

rat W

tio

Leaders in War Production rely on SHELL INDUSTRIAL LUBRICANTS

WASHINGTON BULLETIN (Continued)

ncy Committee is stronger now than dy this summer, when the House at barely sustained the President's to of a bill less drastic than that now

Despite the President's open fight to ain the subsidy program "as is," ders who are aware of the congressonal feeling are looking for some eans of compromise.

War Food Administrator Marvin Jones has no illusions about the congressional sentiment and is willing to meet it part way.

While farm bloc leaders in Congress believe they could pass the pending measure over a veto, some of them also believe a slightly less drastic bill, designed primarily to end the rollback subsidies, would be a safer bet.

New Retail Price Policy

At stormy meetings held this week in OPA's New York City offices, Reagan Connally, new head of Consumer Goods Price Division, heard retailers in nonfood industries recommend the same kind of a program they did before GMPR went into effect in May, 1942.

Purpose of the meetings-based on

Out on a Limb

Periodically since the beginning of the year, Business Week's Washington Bureau has offered, under the above title, its judgment on numerous issues which, in the nature of things, are uncertain.

None of its predictions has proved wrong since the score was last called (BW-Jul.31'43,p7), but, in all honesty, some are beginning to sound sour.

There's the case of Price Administrator Prentiss M. Brown. Last March, it was predicted that Brown would last. He has proved to be pretty durable, and he won't be fired. However, he may quit anytime now.

Exception may be taken to the prediction that, increasingly, as the end of the war comes into sight, State Dept. diplomacy will govern U. S. conduct of international economic affairs. We believe that, so far as over-all policies are concerned, this will remain true, but President Roosevelt has taken practical steps to assure that the policy making, which remains in the State Dept.'s hands, is realistic economically, and to prevent interference by State's personnel with the actual conduct of operations in the new Office of Foreign Economic Administration.

Some probably think July's prediction regarding the fathers' draft was wrong. That forecast said the draft would take some fathers eventually but wouldn't make anything like a clean sweep of the 3-A class; that fathers wouldn't start going in any numbers before the end of the year. Here's the situation: Of 6,559,000 3-A's, 446,000 will go by Dec. 31, 500,000 more, at the outside, next year.

Since the battle is still on, we cannot call an error on the prediction that John L. Lewis' demand for a wage-rate increase will be rejected—that the coal miners will get more money but won't be allowed special exemption from the rate-boost limits laid on labor generally. While the miners won't get a rate increase, it now seems likely that they will get most of the \$2-a-day demand as pay for more work and time.

Then there is the long-standing prediction that the farm bloc will succeed in tossing parity aside or in so altering it that it will not be an obstacle to a fur-

ther rise in prices. The only comment to add is that the politicians will never openly admit that they have dropped parity—it's too good a slogan to scrap—but the fact is that today all farm price policies are keyed to boosting food production. The point of disagreement is on the level of prices necessary to do the job, and whether the government or the consumer will pay the bill,

Standing Pat

The following predictions still stand:

No social security legislation will be enacted before the 1944 elections.

There will be only moderate increases in individual income tax rates, practically none in corporate rates.

There will be no general sales tax, but luxury taxes will be greatly extended. Provision will be made for setting up

Provision will be made for setting up substantial postwar conversion reserves (probably via the new tax bill rather than in renegotiation of contracts).

Congress will not repeal the law on renegotiation of war contract profits. There will be no rationing of civilian

clothing this year.

There will be no priorities on rail freight movement except in specialized equipment such as tank and refrigerator cars.

No refrigerators, washers, ironers, vacuum cleaners, and the like will be produced until well along in 1944. Production of small household items will be stepped up some in the meantime.

War production will be driven up from

War production will be driven up from its present plateau (as of last July) but will be a sawtooth line until it is deliberately allowed to taper off.

A goal of 25 billions isn't out of sight for future Treasury bond drives.

New Predictions

The new predictions that follow are separated into two groups: (1) those on which the score presumably can be and will be called in the relatively near future, and (2) those on long-term issues or trends that are not susceptible to specific right-orwoon scoring at any given time, if

In the short-term category, the

following are offered as better than even bets:

There will be no horizontal increase in the price of crude oil.

Freight rate increases granted by the Interstate Commerce Commission in early 1942 but suspended last May until Dec. 31 will be further suspended, perhaps canceled altogether.

OPA will find a way to control the price of beef on the hoof without actually imposing price ceilings on live cattle.

Federal license and tax penalties on the sale of margarine will be toned down, possibly removed entirely. (The only question is whether the action will be permanent or for the duration only.)

When all is said and done, the yield from the new tax bill will not go much over \$5,000,000,000.

The controversy raging over the 1944 food program will end up in an extension of the Commodity Credit Corp.'s life, tied to permission to continue all present subsidies, plus funds for moderate extension of subsidies to hold bread and dairy products prices where they are.

For the long pull, consider these: Plant-wide incentive wage systems will not be generally adopted by war industries.

Neither the British nor the American plan for international currency stabilization will survive in its present form. A less ambitious program eventually will be adopted by most of the United Nations, including U. S.

The Treasury's proposal for a world bank, or a recognizable modification of it, will be adopted.

John L. Lewis and the coal miners will be sitting in the 1944 A.F.L. convention. Their influence will be against Roosevelt and for raids on C.I.O. unions.

Advanced by the farm bloc to counter the Administration's food subsidy program, the food stamp proposal introduced by Sen. George Aiken (R., Vt.) will not get anywhere until the Administration picks it up as a postwar farm- and urban-relief measure.

The Connally-Smith War Labor Disputes Act will stay on the statute books, will be used by unions to legitimatize strike votes, will rarely have its punitive provisions invoked by management or government.

HOW TO BE IN

DPLACES **ALL AT ONCE**

Let us help you cut down travel in New York State



Business executives know a simple way to get facts and figures about business in Troy or Buffalo-or make a quick check-up in many parts of the New York State Market.

This saving of time—and travel -is possible because in 38 leading New York cities and towns there are Marine Midland banks whose officers know local conditions intimately. This means a knowledge of industry, commerce and people that constantly is proving valuable in doing business and laying future sales plans.

These men may be able to save trips for you entirely. They can most likely help you reduce your travel when space is at a premium.



WASHINGTON BULLETIN (Continued)

the premise that General Max has outlived its usefulness-was to determine whether or not it is possible to operate an over-all price regulation for all stores

other than food—and, if so, what kind.

Druggists and jewelry men—both chain and independent—held out for adherence to GMPR for fear any alternative that may be adopted might squeeze them even tighter.

Other retailers found they could agree in general on a program that would encompass (1) prices based on historical formulas to protect retail profits regardless of manufacturers' prices, (2) adoption of 1942 instead of 1941 as a

base period, and (3) elimination of the "no-higher-price line" limitation.

OPA, muttering about inflation threats, indicated that a compromise formula was probable. Critics, who blame failure of General Max on lack of enforcement, point out that teeth of enforcement, point out that teeth will be equally necessary to a new price policy.

Rail Strike Bluff

Strike threats by railroad union officials are part of the same old railroad game of trying to drive a better bargain with the government.

They don't mean to strike if they can

help it.

This is best revealed by the fact that the nonoperating unions have assigned attorneys to re-examine the Railway Labor Act and recent executive orders to see if there is any way of going to court to press their demands for more money, thus force Economic Stabilization Director Fred M. Vinson to reinstate the 8¢-an-hour wage award which he upset on stabilization grounds (page

The operating unions, awarded a 4% increase, which they consider "insult-ing," are just as sore but even more conservative. They will let the non-ops carry the fight.

Tire Outlook for '44

With some luck, civilians may get around 24,000,000 passenger car tires in 1944. Just when they get them depends on (1) how much the Army expands its demand for plane and truck tires, and (2) how fast the reconverted

tire factories get back into production. There will be enough rubber and cotton cord (rayon cord for heavy truck tires will be tight), but WPB will meet the requirements of the armed forces first, then take care of buses and commercial trucks.

Passenger cars are last in line.

THAT AD RUMOR

Here's the situation on the romor that the General Accounting Office is going to crack down on advertising costs in cost-plusfixed-fee contracts.

GL

IND

UCTION

Ingot O

ction of neering (

e Oil (d

ellaneou

Other Ca

ess Fail

Ave

Comm strial Ra

estic Fa

Steel

per (elected (No. 11 (raw, 10 ton (mid-ol Tops) ber (rib

NCE

tocks,

ım Gı

Grade

Bond

Loans

e Com

ING

and D

l Loan

mercia nities

Gov'er Secress Res

ng fixe

BL

Advertising costs are not un-ally charged directly to govern-ment contracts but are entered into overhead and filter into cost by the back door, GAO headquar. ters has been waiting to get a clearcut case where advertising costs were charged to overhead and overhead charged to the gov. ernment. As soon as it does, it intends to shoot the case right up to the Comptroller General.

So far it hasn't found a test case, not because there aren't any, but because it takes a couple of years for claims to work their way up to GAO. Audit of some of the big overhead accounts for 1941 is just beginning.

This week a story leaked out that the New York branch of GAO had issued a ruling disallowing all advertising and promotion costs. Washington headquarters was as puzzled as any-body else. The New York office is supposed to follow precedent and, if it gets a tricky case, pass it on to Washington.

Final policy won't be estab-lished until the Comptroller General hands down a decision. Before then, the Army and Navy will put up a fight for their present policy, which allows reasonable advertising expenses as charges against cost-plus-fixed-fee contracts.

Capital Gains (and Losses)

Substitution of steel for brass i cartridge cases hasn't worked out. Fir ished in lacquer, they scratch, corrod then split and jam the gun. Both a and ground forces in the South Pacifi despise them, and Army Ordnance i going back to brass as fast as it can.

In the past 90 days, German ord nance has shown the effects of a ba pinch in materials for the first time.

One reason for condoning Russia' refusal to allow American military ob servers on the front was heard in a n cent Washington conference with high military official. If it did, i would have to allow Japanese militar observers to get the same education.

> -Business Week Washington Bures

GURES OF THE WEEK

the nu Ounting own on ost-plusot usugovern. entered to cost adquarget a ertising rerhead he gov. t up to

a test 't any, ple of ir way me of ts for d out ch of disalromoheads anyoffice edent , pass estab-Gen-Before ll put olicy, rertisgainst

orass i

nt. Fin corrode Both ai Pacifi ance i

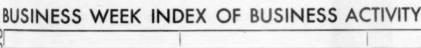
an. an ord me.

me. Russia': ary ob in a re with a

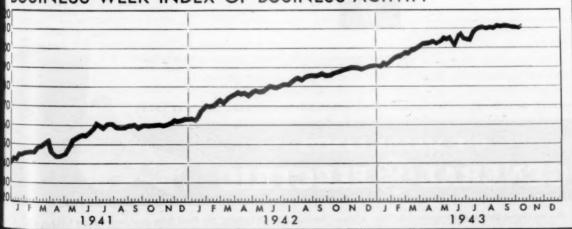
did, i militar tion.

Week Bureau , 1943

	§ Latest Week	Preceding Week	Month Ago	6 Months Ago	Year Ago
INDEX (see chart below)	*212.3	+211.2	212.3	203.8	188.7
UCTION					
Ingot Operations (96 of capacity)	100.7	102.2	100.6	99.1	101.0
Ingot Operations (90 of Capacity)	19,535	20,635	21.040	18,855	20,225
neering Const. Awards (Eng. News-Rec. 4-week daily av. in thousands)	\$8,838	\$9,721	\$9,285	\$13,832	\$24,529
neering Collst. Awards (Eng. Feets-Rec. 1 week daily av. in Collston Collst	4,382	4,342	4,359	3,917	3,717
Oil (daily average, 1,000 bbls.)	4,412	4,390	4,376	3,912	3,902
ninous Coal (daily average, 1,000 tons)	2,008	†2,016	2,031	2,067	1,943
ellaneous and L.C.L. Carloadings (daily average, 1,000 cars)	84	85	83	80	88
wher Carloadings (daily average, 1.000 cars)	- 67	67	67	51	64
in Circulation (Wednesday series, millions)	\$18,978	\$18,883	\$18,773	\$16,424	\$13,932
ment Store Sales (change from same week of preceding year)	+9%	-5%	+10%	+28%	+26%
ess Failures (Dun & Bradstreet, number)	36	42	30	89	132
(Average for the week)	240 1	247.0	247.0	247.0	222
Commodity Index (Moody's, Dec. 31, 1931 = 100)	248.1	247.8	247.8	247.0	233.4
trial Raw Materials (U. S. Bureau of Labor Statistics, Aug., 1939 = 100).	160.4	160.6	160.6	160.0	155.6
estic Farm Products (U. S. Bureau of Labor Statistics, Aug., 1939 = 100).	217.6	217.6	216.9	208.9	185.5
hed Steel Composite (Steel, ton)	\$56.73	\$56.73	\$56.73	\$56.73	\$56.73
Steel Composite (Iron Age, ton)	\$19.17	\$19.17 12.000¢	\$19.17 12.000¢	\$19.17 12.000e	\$19.17
er (electrolytic, Connecticut Valley, Ib.)	12.000¢			\$1.37	
at (No. 2, hard winter, Kansas City, bu.)	\$1.53	\$1.50	\$1.47	3.74e	\$1.20
(raw, delivered New York, lb.)	3.74¢		3.74€		3.74
on (middling, ten designated markets, lb.)	20.31¢	20.43¢ \$1.363	20.48¢ \$1.365	21.13¢ \$1.332	\$1.240
Tops (New York, lb.)	\$1.353 22.50¢	4		4	22.50
her (ribbed smoked sheets, New York, lb.).	22.50¢	22.50¢	22.50∉	22.50¢	22.50
CE .	042	02.0	06.6	00.2	74.5
ocks, Price Index (Standard & Poor's Corp.)	94.2	93.0	96.6 3.83%	90.3	4.24%
um Grade Corporate Bond Yield (30 Baa issues, Moody's)	3.81% 2.69%	3.83% 2.70%	2.70%	3.97% 2.76%	2.80%
Grade Corporate Bond Yield (30 Aaa issues, Moody's)		2.70%	2.70%	2.70%	2.33%
Bond Yield (average of all taxable issues due or callable after twelve years)	2.30%	1.00%	1.00%	1.00%	1.00%
Loans Renewal Rate, N. Y. Stock Exchange (daily average)	1.00%		1.00%	1.00%	
Commercial Paper, 4-to-6 months, N. Y. City (prevailing rate)	1-3%	1-1%	8-3%	8-3%	1-1%
NG (Millions of dollars)	30,742	20 222	32,871	33,004	28.18
nd Deposits Adjusted, reporting member banks		30,322 51,278	,		,_
Loans and Investments, reporting member banks	51,648 6,318	6,277	49,393 5,992	42,250 5,806	35,90
nercial and Agricultural Loans, reporting member banks	3,057	3,210	2,319	1,168	6,62
ities Loans, reporting member banks	36,698	36,215	35,584	29,475	22,14
Gov't and Gov't Guaranteed Obligations Held, reporting member banks.	2,941	2,946	2,953	3,211	3,49
Securities Held, reporting member banks	1,610	1,700	2,955	2,147	2,71
s Reserves, all member banks (Wednesday series)	9,362	9,775	10,315	7,104	4,042
receral Reserve Credit Outstanding (wednesday series)	7,702	7,113	10,717	7,104	7,072



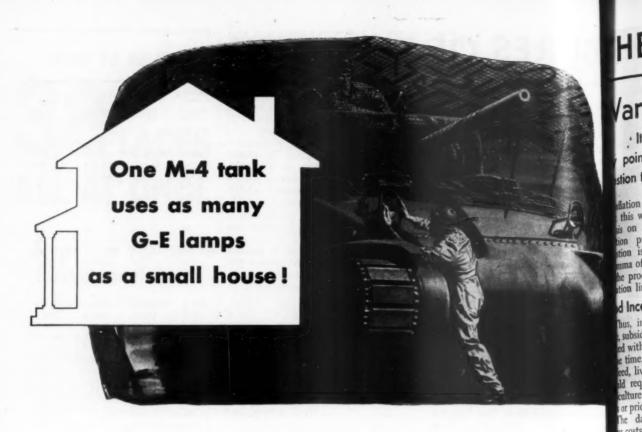
† Revised.



§ Date for "Latest Week" on each series on request.

inary, week ended October 16th.

ng fixed by government.



It's true! A General Sherman (M-4) tank uses 27 G-E lamp bulbs, about the number you'd find in

average home.



Five of them are shown here. A full armored division uses 60,

lamps . . . a year's supply for every home in Hackensack, N. J. The General Electric



research organization that developed these



and other G-E lamps used by

recen

permit or mille simpl ops all a need

armed forces is your assurance



that the G-E lamps you use are made to stay brighter lon

Key to tank lumps above: (1) G-E"all-glass" spot and signal lamp (2) Blackout lamp (3) Headlight lamp (4) Compass illuminator (5) Inspection lamp.

THE BEST INVESTMENT IN THE WORLD IS IN THIS COUNTRY'S FUTURE . . BUY WAR BONDS

G-E MAZDA LAMPS
GENERAL & ELECTRIC

AR BONDS

SMERAL SIMILAR STREET

Hear the General Electric radio programs: The "Hour of Charm" Sunday 10 p. m. EWT, NBC; "The World Today" news every weekday, 6:45 p. m. EWT, CBS.

HE OUTLOOK

/ar Program Dilemma

points without taking losses on the anti-inflation line—a stion that will continue through reconversion.

flation issues returned to the outthis week, but with renewed emis on their connection with protion problems. Increasingly, the stion is how to escape from the mma of whether to make a sacrifice the production line or at the antition line.

d Incentives Needed

hus, in the President's food messubsidy questions were inextricably ed with 1944 production goals. For e time, it has been clear that shifts eed, livestock, and food crop needs ld require changed incentives for culture (BW-Jul.3'43,p13)—subsior price boosts.

The dairymen's higher feed and or costs are already being subsidized the tune of \$250,000,000 annually, order to sustain milk production. erecent sharp rise in wheat prices to permitted parity level is wiping out it millers' margins. Today's issue is simply one of a demand for price ups all along the line, but rather one a need for key differentials to spurnt.

nd in

by

3, 19

the same need is indicated—though a le less clearly—on the labor front to 15). How acute coal shortages be in 1944 (page 16) depends in ton how many workers leave the as and how much efficiency is imput by disaffection with existing contrates.

The railroads present a similar situan. Employment on Class I roads speed, contra-seasonally, by 9,000 rers in August and by 5,000 again September; also, agitation over a new tract is wasting man-hours. Ceraly, coal and rail operators could the hold their labor if it were paid me; and per-man output would be proved.

so, economically, incentives must be aged. The Administration program do this without boosting living costs. breaking "Little Steel" is to pay mers subsidies and labor overtime. e political question is whether farm I labor groups will go along.

ng-Term Influence

Naturally, the longer-term outlook prices through the war and recon-

pens now. But continuance of the upward pressure—but not necessarily an upward trend—is clear.

Food prospects for 1944 and 1945 are already shaping up (BW-Oct.16'43, p19). Exhaustion of feed stocks and normal weather will limit output of meat, dairy, and poultry products-biggest items in the food budget-to approximately 1943 levels. Civilian supplies first will shrink further, to meet military and lend-lease needs, then expand slowly as these requirements decline some time after the end of the war.

At present, current prices of these products are being held by ceilings below the level that supply and demand would determine in a free market. If national income is fairly well sustained through the reconversion, demand will

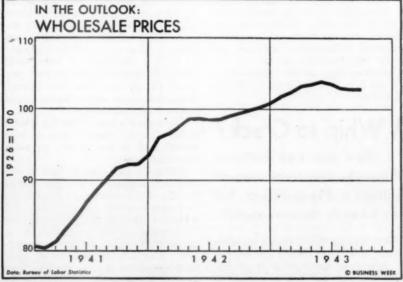
still exceed supply. Living costs will at best hold up and will rise if price controls are eased. Implications for wages are obvious.

Aside from food itself, price difficulties generally will be compounded by a production snag which Business Week has termed "the real reconversion problem" (BW-Jun.26'43,pl16) and which Arthur D. Whiteside, head of the Office of Civilian Requirements, pointed up this week: "It must be obvious that there will be a postwar tightening of all but the heavy goods."

"Soft Goods" Problem

Output of "soft goods"-textiles, paper, coal, shoes (page 94), etc.-increasingly is being limited or actually curtailed by the manpower shortage, while accumulated inventories are fast being exhausted. Yet these are the very goods most needed for foreign relief after victory; also, because they are currently consumed by the armed forces, military demand cannot be quickly reduced.

So, on the one hand, civilian supplies of "soft goods" in general may con-



The slight easing in wholesale prices during the summer resulted from the strengthening of controls over farm prices, including the use of rollback subsidies on meat and butter. Indeed, all movements in the curve since the prize freeze in May, 1942, reflect changes in farm and food quotations; industrial prices have inched up but 1% since then; before that, both sets of prices advanced, the farm-food group much the faster. Altogether, in

the 16 months since the freeze, the wholesale price average has risen less than 5%, as compared with a jump of almost 25% in the preceding 16 months. Right now, key labor and farm issues are again coming to the fore, and industrial prices would tend to be more sensitive than in the past to any boosts in wages or farm prices. But in any event, the outlook is for relative stability in the wholesale price level, at least for the duration.

tract, rather than expand, putting more pressure on their prices from excess purchasing power. And, on the other hand, the much-needed shiftover of manpower to these lines might require wage increases, which would also lift prices.

War and Home Fronts

Immediate implications of the opening of the Moscow conferences this week (page 44) were overshadowed by the Russian breakthrough of the German Dnepr line, termed by some the "blackest" news of the war for the Nazis. For the thrust threatens entrapment of German forces in the south.

At home, munitions output lagged in September, after the sharp gain in August. Extension of West Coast manpower controls was forecast by the WPB classification of Detroit, Akron, and Hartford as "urgency" areas, in which "production urgency committees" are to be set up, preliminary to the institution of centralized hiring.

tution of centralized hiring.

While the strain to push up war output requires tightened controls, the end of the war (of the German phase, at least) comes ever nearer. This cross current now dominates the outlook, in ever more phases, ever more forcefully.

This week the Board of Governors of the Federal Reserve System brought out the expected revision of its index of industrial production, due primarily to the broadening of the measurement of war production in the chemicals, machinery, and transportation equipment industries. Whereas the old index figure for July production was 203% of the 1935–39 average, the new index shows 239 for July, 241 for August, 243 for September.

A Whip to Crack?

New unit may compose differences over termination of contracts and reconversion, but who'll handle the settlements?

Now that the White House has taken a hand, it looks as though the free-forall fight over termination of government contracts will end in a series of compromises.

New Policy Unit—Acting on the President's orders, War Mobilization Director James F. Byrnes has just set up a new unit to work out policies for termination and postwar conversion.

Procurement officers think that with OWM cracking the whip, the services at last will get together and agree on the uniform termination policy they have been kicking around since the start of the war.

• Job for Congress-Although establishment of the new OWM unit will sim-

plify things, it won't solve the big problem of whether settlements on canceled contracts shall be handled by the procurement agencies or by the General Accounting Office. That is still a job for Congress.

Until a few weeks ago, the services were making termination payments on their own, assuming that their legal authority to make contracts gave them power to settle up when they canceled an order. Comptroller General Lindsay. C. Warren kicked the props from under this theory with a letter to Congress insisting that his General Accounting Office was the only outfit with the authority to take care of claims against the government.

• A Deeper Split—The split between the services and the Comptroller General is something more than an ordinary consequence of departmental imperial-

The procurement agencies are thinking primarily in terms of getting money out fast, so that contractors will have enough working capital to start reconversion to peacetime production.

GAO is thinking of the possibility of padded claims and fraudulent cost estimates that may slip past if termination settlements aren't audited like any other disbursement.

• Compromise Spirit—As things look now, Congress will try to straddle the fence. One proposal that appeals to a good many congressmen is to delegate GAO representatives to work with the procurement officers on termination settlements. Should the GAO man make no protest, the Army or Navy could arrange settlement and make final payment. In any case that looked suspicious, the GAO representative could call for a detailed audit.

The big hitch here is that the Comptroller General doesn't have a large enough staff to put a man on every settlement team.

Ordinarily, GAO would have no objection to expanding, but the current shortage of accountants and trained contract men may rule out the idea.

 Central Board?—To economize on, GAO manpower and to get uniform administration, some congressmen advocate a central board made up of representatives of the services, the War Production Board, and the Comptroller General.

The board would determine policy, draw up general rules, and review contested cases. Actual settlement would be handled by procurement officers of the various services. If OWM's new unit takes hold fast, Congress may make it the central board.

Procurement officers say that Congress also will have to give them a specific grant of authority to make advance payments on termination settlements. (Debate over whether the services had the power to make advance



rogram

the se

an Re

but the

work N

les term

g to pl

in the

ram, n

it year,

rate of a

v case,

actors

efore the

racts car

total o

he value

t the en

most of

dle. Ab

ations t

against

re inci

ntract.

lements

und eig

is is th

other w

to filin

dup Du s admit

o the w

w mon

TWA

orship

s perfe

till und

than

944.

BALKY BUTTER BUYERS

Sorry is the grocer's lot. Just a five weeks ago butter supplies were not gible, the demand frantic. Too with the suspension of governme buying sending more into civili channels, customers flinch at turni in 16 red ration points per pound. Cleveland, a real housewives' reb lion has grocers on the anxious setheir showcases jammed and pil (above) with butter they can't set Meanwhile, margarine sales (page 8 in some Cleveland stores have go up' 40% since the four-point but increase went into effect.

payments was one of the main thin that held up adoption of the unifor termination clause for government of

Seek Permissive Authority—Althou the services believe in advance purents, they want the grant of author to be purely permissive, leaving the free to refuse advances in specific cas Contractors, on the other hand, a pressing Congress to make advance purents mandatory.

The odds are that Congress will for a compromise on this problem to It probably won't make advances on pulsory in all cases. But it is pressure to set up a system of mandato "loans" for small companies and contractors who can show hardship if parment is delayed.

• Which to Cancel?—One problem the Congress can't handle, except in a general way, is the question of which contracts should be canceled and when From the contractor's standpoint, this one of the most important points of a

If OWM's new unit can handle the job, it may get most of the response

r drawing up an over-all termiprogram. A good many other the services, WPB, the Office lian Requirements—would like but the chances are that a cendinating agency, like OWM, se out with final authority. Work Needed—Whichever out-

work Needed—Whichever ourles termination policy, it won't ag to plan its program. Present ion schedules call for a net rein the number of government ors, beginning in the first quar-

gram, now set for \$76,000,000, t year, will be cut back to an rate of about \$40,000,000,000 or 1,000,000, possibly even less.

y case, most of the eliminations factors from the program will efore the end of the war, either intion or by cancellation.

fillions Canceled—Dollar volume tacts canceled has passed the imtotal of \$6,000,000,000, more he value of all contracts termitite end of the last war.

st a f

ere ne

Tod

ernme

civili

turni

und.

s' reb

us se

d pil

n't so

page 8

re go

but

thin

nt o

thou

cas

most of them haven't been hard dle. About three-quarters of the ations to date have involved no against the government, because ere incident to the placing of a ontract.

lements have been slow, averagnund eight months. One reason is is that contractors are busy other war work and don't get

I to filing claims.

dup Due-Even so, procurement
s admit that they will have to
p the whole procedure within the
sw months.

Eyes on the Coal Pile

John Lewis' case benefits from the fact that higher pay is about the only way to get the fuel, job of holding the line is made harder as result of mine and railroad cases.

This was a black week on the labor front. The rail wage controversy (page 98) threatened to underniine the authority of Fred Vinson and his Office of Economic Stabilization. The Railway Labor Act was readied for embalming. Strikes and threats of strikes harassed the war effort.

Alarmed, the President called union leaders to the White House for an extraordinary session of his Combined Labor Advisory Committee. And over the whole scene fell the portentous shadow of John L. Lewis.

• Coal Output Suffers—Tenacious, single-minded, the president of the United Mine Workers has kept the coal dispute moving from crisis to crisis since early last March when he first told the industry he wanted \$2 more a day for his members. Three national strikes and a series of "spontaneous" regional stoppages have kept the industry in turmoil for more than seven months.

Since the first of the year, stocks of coal have dwindled to a point where now, instead of being at their seasonal high, they approach their 1943 low (charts, page 16). Unless there is a marked improvement soon, formal rationing is inevitable.

 Diverse Results—Lewis' determination also has had rapidly shifting effects on government labor policy. It was directly responsible for the passage of the Connally-Smith War Labor Disputes Act, and at the same time it induced the National War Labor Board to be more generous in finding loopholes in the Little Steel wage-freeze formula lest other labor groups emulate the Lewis tactics.

Shrewd or lucky, Lewis formulated synthetic wage demands last March that had no more economic justification than demands from other labor groups which, upon being rejected by NWLB, were abandoned. In holding fast to his own program, the miners' boss has seen war-wrought changes in domestic economy back up his demands.

• Prescription for Men-There is, first of all, the manpower shortage which has progressed from serious to critical within the last six months. It has pinched coal more severely than most industries, and coal-is a prime war essential. This means, in effect, that men must be kept in the mines, and what Lewis wants-more money-is clearly one of the most practical ways.

There is, second, the heat-powersteam base on which war production schedules are set, obviously requiring maximum output from every individual miner. Again the cure for discontent and half-hearted effort is the Lewis prescription—more money.

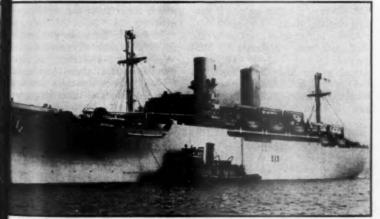
• The Living Standard—Another element in the dispute that helps bulwark Lewis' position is the equity of a wage boost. Whatever validity there was to the \$2 demand last March, based as it was on a standard-of-living claim, it has since grown.

To be sure, the official government cost-of-living index is only a fraction above its March level, but scarcities in cheaper lines, upgrading of consumer goods, and seven months in which hidden inflation has grown more pervasive have caused appreciable deterioration in

the miners' position.

• Conflicting Tendencies—Put these considerations on the scale, in addition to the weight of Lewis himself and the force of another threatened national coal strike, and it can be seen that the pressure upon NWLB to let the miners have their raise, and close the coal case, becomes well-nigh irresistible.

But there has been an opposite pull on the board which has not been trivial. Over and against the prospect of a disastrous strike, coal rationing, and a crippling blow at war production—which a decision against Lewis would assure has been the horror of abandoning the



TWAR LINER

piship now permits pictures of Vay's new "invasion specialist," is performance and specifications ill under heavy wraps. A transthe steamer is much faster and than a Liberty ship; the largest, it, ever to slide from Federal

Shipbuilding's yards at Kearny, N. J. Its features include garbage incinerators that leave no spoor for enemy submarines, all-weather air-conditioning that eliminates portholes, and a shallow-draft to permit docking at almost any port. The "specialist" is designed for easy conversion to postwar passenger runs.

Little Steel formula. For, regardless of how the board chooses to disguise a grant of increased pay to the miners, its own previous statements have indicated unmistakably that any wage concession in coal would mean abandoning the hold-the-line position on other wage rates.

 How to Get \$2-This was NWLB's unhappy position on Thursday as it heard Appalachian operators' arguments against approving Lewis' latest contract with Illinois mine owners. That contract revises the present work and pay schedules for miners and provides for an 8½-hour day which will include underground travel (portal-to-portal) time. The extra 1½ hours work would be compensated at \$1.75 which, added to the 25¢ a day previously awarded by NWLB for tools and lamps, would bring miners' cash gains up to Lewis' original figure.

In August (BW-Aug.28'43,p14), NWLB refused to approve a Lewiswritten Illinois contract that called for a \$1.25 daily allowance for portal-toportal time. The new agreement does not separate portal-to-portal time from additional work time, but Appalachian district operators contended that it still represents nothing more than a dis-

guised bonus for the previously lowed portal time.

d Li

Admini

ces an

uch), ar

iable (

he Adm

s price a

e crossro

Preside

os with

er, and be used the retu

ational g on its

Illinois

would

s an ext

n the w

tion Di

ed up th

he cost 125.1 i

st. If th

to mov

ext May

ember, en by t

goal f

n the

were

it did

of this

131 by

elatively

on's st

Office

neatly

ing wl

(chart

's inter

Behin

t's con ng act te issue

t least

tions.

The A

used o

ope in

con

nt's rel w defe

• Ickes Party to Squeeze?—Mean bringing advance rumidings to V ington of what another rejection mean, 22,000 Alabama miners hat their pits under the traditional UN slogan: No contract, no work. Chi Secretary Harold L. Ickes' part is controversy said that he had lent self to a squeeze play by returning coal mines to private ownership. I the Connally-Smith act's proviso strike involving privately operated erty is much less serious than a in a government-operated enterni

Will There Be Enough Coal?

Wildcat strikes at the coal mines this week dramatize the definite prospect of bituminous shortages in 1944.

Key to the current situation is the volume of coal in consumers' hands. Inventories have been tapped during the summer months (chart, below left) during which coal should have been stockpiled against sharp expansion in winter needs.

• Stockpile Deficit—Indeed, plans of the Solid Fuels Administration called for industry's building considerably larger stockpiles than last year by this time, whereas inventories now actually are down substantially. In fact, Secretary Harold L. Ickes, fuel administrator, figures the stockpile is about 30,000,000 tons under the desired level.

The series of spring strikes, of course, accounted for the bulk of this deficit. But the Solid Fuels Administration can't worry over spilled milk; its problem is the coal mines' inability to push output back to the March peak—a rate that could insure satisfaction of all demand.

• Contract Troubles—One reason for the production lag is dissatisfaction of labor. Efficiency has been lowered by keeping the old contract in force beyond its expiration date of Apr. 1, instead of negotiating a new pact.
Output might be raised by length-

ening the work week from 42 to 48 hours. But such a step wouldn't bring a commensurate gain because of resultant fatigue and absenteeism.

The real crux of the labor situation is continual shrinkage of the total labor force along with a decline in efficiency of remaining labor. The armed forces and war plants have drained off the youngest, best workers. The net loss since Pearl Harbor is 17% or 77,000 bituminous miners.

• Analysis of Prospects—Ickes sums up prospects this way: "It is currently estimated that 1944 coal requirements will be 620,000,000 tons. If present trends . . . continue, the industry will not be able to produce as much coal in 1944 as in 1943." (1943 will be well under 600,000,000.)

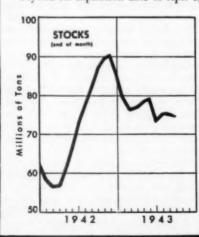
The actual outlook may not be that gloomy. Current output is running slightly above 12,000,000 tons a week. If sustained, and assuming that work went on during all holidays, as is not now the case, such output would just about meet the 1944 goal of 620,000,000 tons.

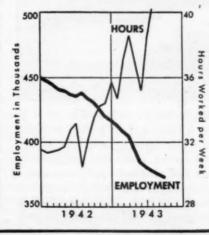
• Labor Factors-Industry opinion now is that a new contract and longer hours—a combination embodied, for example, in the most recent Illinois test agreement—would lift the output rate by 4% to 8% with the absolute maximum put a about 675,000,000 tons.

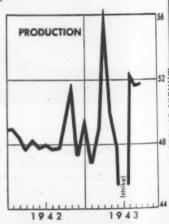
If, on the other hand, the man power drain were to continue and all other factors remained the same, production might drop as low as 560, 000,000 tons. However, Selective Service inductions are slackening, and growing overtime pay in the coal mines is offsetting the high pay rates in war plants.

• Subsidiary Problems—In addition to the broad production problem, coal has several subsidiary worries. For example, Ickes' estimate of 620, 000,000 tons needed in 1944 allows for customary exports to Canada, but it includes nothing more than an admittedly "conservative" guess for lend-lease and foreign relief—factors which could upset the whole supply situation.

Moreover, there are pinches now in some regions (Pennsylvania and Washington), and there are shortages in certain grades (coking coal for steel). Such shortages promise to be intensified and wider spread next year.







d Line to Hold

e?-Mean

ejection :

niners ha

ork. Crit

s' part i

had lent

returnin

ership. [

provisio

perated

than a

enterpri

on em

ne mos

t-woul

put a

e man

and all

ne, pro is 560.

elective

ng, and

e coal

y rates

ldition

oblem.

orries,

620,

allows

a, but

in an

actors

upply

now

and

hort-

coal

se to

next

56

Administration won't give ces and wages (at least, uch), and OPA's position is iable despite shifts.

the Administration's own admis-sprice and wage control program to crossroads.

President is preparing to come s with Congress on subsidies— r, and to what extent, they he used to hold food prices down the return to the farmer goes up ational War Labor Board is still on its almost certain approval g on its almost certain approval fillinois coal agreement (page 15) would give John L. Lewis' coal as an extra \$1.75 a day, blasting a in the wage stabilization program. ical Explanation—Economic Station Director Fred M. Vinson ed up the crisis this week:

he cost-of-living index dropped 125.1 in May, 1943, to 123.2 in the first fithe cost of living should contain move as it did in those months.

to move as it did in those months, ext May the cost of living would exten back to 117.8, the level of mber, 1942. That is the level on by the President and Congress e goal for stabilization of prices. In the other hand, if the cost of

were to begin rising again, at the it did from September, 1942, to of this year, the index would sur-

131 by next May.

elatively Firm Stand-Implicit in son's statement, put out in an offi-Office of War Information release neatly documented with a chart ing where the c. of l. can go from (chart, below), is the Administraintention to continue to hold the Behind this intention is the Presiis conviction that, by fighting a deng action on all major price and issues, he can maintain the linet least a semblance of it-until after

The Administration also has its eye used on an end to the fighting in mpe in figuring its strategy on price-e control. This explains the Presiit's reluctance openly to retreat to a w defensive position—a position that, allowing prices and wages to advance other notch, would temporarily re-

we the pressure.

How Much Subsidy?—By recommit-itself to holding the line, the Ad-histration is automatically let in for e fight of its life on subsidies. The ce of Price Administration-which to dreamed of subsidies totaling two, e, or even ten billion dollars to stem ing prices—now hopes that Congress without many strings attached.

OPA economists believe that this much subsidy money spread thin (used to make life easier for high-cost producers instead of blanketing an industry like the present meat and butter subsidies) plus further judicious squeezing of margins and profits will make it possible to keep prices about where they are now for another year.

 Familiar Troubles—Meanwhile, OPA is finding its job as the Administration's whipping boy tougher and tougher. Business and the press, figuring that the new "business man" regime which Congress legislated into OPA last summer has had a long enough period of grace, are beginning to grumble. General Manager Chester Bowles and

his aides are stubbing their toes on the same snags that upset Leon Henderson and Kenneth Galbraith. To the extent that business and the man-on-the-street believe that their hearts are in the right place, they have a greater immunity to

personal criticism.

• Heads Begin to Roll-As evidence of the trouble in paradise, James F. King, appointed by Bowles as OPA's information chief last August, was out of a job this week. James G. Rogers, assistant general manager and Bowles' alter ego, will take over the post temporarily, and OPA officials are speculating as to how long Reagan P. Connally, chief of the new consumer goods division, will last.

Moreover, as business men take hold in policy making positions there are rumblings of disagreement on fundamental issues between the administrative staff and the agency's braintrustthe economists and researchers, most of whom were Henderson and Galbraith protegés. Thus far, Bowles and James Brownlee, OPA price chief, have the confidence of both sides.

• Better Feeling-In spite of these irritations, OPA now presents a better united front than it has for a good many months. Bowles has had at least partial success in achieving an atmosphere more cordial to business. For the first time, OPA's business advisory committees are being consulted before-not after-orders are drawn up.

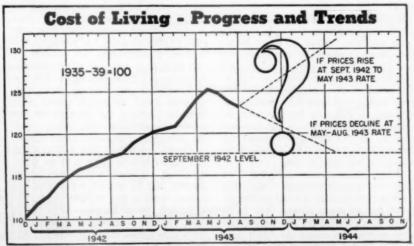
The emphasis on compliance, rather than enforcement, is making OPA less loathsome to both big and small merchants. Similarly, OPA is now getting along somewhat better with other government agencies, notably the War Food Administration and WPB's Office of Civilian Requirements.

· Action on Ceilings-Bowles has seen to it that the consumer is not forgotten. OPA price panels and community ceilings are being extended. As the new fresh fruit and vegetable price program indicates (page 77), Bowles and Brown-lee are going to plump for dollar-andcents retail ceilings wherever possible.

But none of these changes is fundamental. Except for the elimination of grade labeling and the toning down of standardization (and these were knocked out by Congress), none of the major price orders has undergone any basic changes since Bowles came in. And business is beginning to suspect that as long as OPA is holding the Administration's line, none of them is likely to.

• Trouble in Textiles-On food pricing, OPA figures that-with a little subsidy money-it can squeak by, or at least be no worse off than it has been for some time. But its hottest problem right now is textiles, and no subsidies are likely to be forthcoming to ease the squeeze here. Trouble with textiles is that, as one business man puts it, "OPA is pricing goods that are no longer there.

The squeeze of ceilings on low-end textiles has driven manufacturers into higher and higher price lines until shortages in sheets, work gloves, boys' over-alls, knit underwear, and virtually all types of infants' wear are now breeding faster than fruit flies. Distributors have been caught between these shortages and commodity orders like the famous MPR 330 which prevents retailers from in-



Which way living costs? A question pictured in an Office of War Information chart as the Administration fights a delaying action on wage and price issues.



ROTARY "FLIVVER"

Helicopter No. 1 is Igor Sikorsky's; No. 2 is the Platt-LePage model, reported out of commission due to an accident. Now listed as No. 3 is a 1,000-lb. "flivver" model which demonstrates its hovering ability (above) at Washington National Airport. The pilot is Frank N. Piasecki, president of P-V Engineering Forum—a helicopter company backed somewhat by Pennsylvania-Central Airlines. Design includes such features as a 25-ft. rotor spread with a "cyclic" pitch that's easily changed for lateral, forward, or backward flight and a four-cylinder opposed engine. The craft cruises at 65 m.p.h. and carries only one person and gas enough for two hours' flight.

creasing prices on old lines or adding new and higher price lines of women's and children's wear (BW-Sep.25'43, p92).

• Some Increases Allowed—To ease the pinch, OPA has been sparingly allowing price increases. Most of these boosts have been confined to manufacturers, but last week OPA allowed an increase (on boys' big overalls) clear through to the retail level. Assumption is that some high priced lines will eventually be triammed to make up for the increases on low-end merchandise. But this policy has not yet received Vinson's approval (BW—Oct.16'43,p7), won't be widely applied until it does.

What retailers want—and what Connally, as consumer goods chief, has promised them—is an over-all price regulation for all stores (other than food) which would assimilate the various irksome commodity orders like MPR 330. In New York City this week, Connally met with retailers to see what they had to suggest. Retailers came to the meet-

ing to see what Connally had to suggest,

• A Tentative Plan—In the back of the OPA's mind is a scheme whereby retailers would be allowed to take their over-all, average markups for a base year (say, 1941) and apply it to present costs. A store could exceed the markup on one item if it undercut it on another, averaging out to the base figure. On certain essential "cost-of-living" items (presumably those on which prices must now be posted), the amount of the markup would be limited, giving a ceiling price which no store could exceed.

Trouble with this plan is that OPA can't figure how to apply it to the small merchant (whose accounting is so sketchy that he doesn't know what his average markup was in 1941).

 Needed: Some Support—What OPA really wants is enough congressional support to enable it to tell business that its hands are tied because it is carrying out a mandate from the people. Price officials are somewhat encouraged because congressmen, who went he damning OPA and all its works, the find their constituents as mad as were, and consequently came has somewhat mollified. OPA has he acutely conscious of the weakness of position in constantly telling but that it is holding a line the Prese forced out of Congress.

ls to m

es for

would

for a 1

it to

general

ien col

would

instead

the 1

to sha

would

unt an

set up

want to

dumpe

Tre

ing m

less o

break

War

show

0,000

total

tual

othe

C

large

finar

2.8

2.6

rtion.

While OPA held tight and particle of help, an old storm warning raised again this week: The reports food pricing and rationing would taken away from OPA, lumped a food production and distribution in War Food Administration, was rese

Reserves Assure

How to go about it is a a puzzle, but Congress intento include provision for postwon conversion in the tax bill.

No matter what Congress may about the rest of the 1943 tax bill intends to write in some sort of exer tion for corporate reserves to co postwar conversion costs. The trou is that as yet nobody in Congress any very clear idea of how to go about • Present System Knocked-Busin men testifying at the Ways & Mer Committee hearings have been h mering away at the present system handling reserves. So far, they have met much opposition, but the real fig won't start until the committee down to the specific question of w changes it should make.

Unless the committee discovers a easy compromise, postwar reserves wi be one of the hottest points in the d bate over the new tax bill.

• Hard to Estimate—Most of the trouble is that corporations know the are going to run into heavy expense after the war but can't estimate how much they will be.

Some postwar costs properly should be charged to wartime income, but present tax laws allow no current deductions for expenses that can't be estimated accurately when the returns an filed.

Consequently, most corporations at now paying taxes on income that late will be mopped up by conversion costs dismissal wages, and similar postwa outlays

With taxes running up to 80% of net income, a good many corporations say that they can't salt down enough to meet their postwar expenses. They are afraid that once they stop working or government orders, they won't have enough in the till to get them started in peacetime business again.

o Tax Deduction-Of the dozen of more solutions offered, the one that

ls to most business men is to allow es for postwar expenses as a tax tion. The idea is that corporawould earmark part of their infor a postwar reserve, either alloit to specific items or leaving it general pool.

Went 1 works, d

mad as

came

A has

cakness

ling bus

the Pres

and pr

warning

e report

ig won

amped

oution in

was revi

Sure

it it is

s inten postw

oill.

ss may

tax bill

t of exem

he troub

go about

I-Busin

& Mea

ocen ha

system

be est arns an

ons at at late

n costs

oostwa

0% 0 rations ugh to iev an ing on ted in

en or that 1943

en conversion expenses come up. would be charged against the reinstead of against current income. the postwar economy had had to shake down, any unused rewould be closed into the income and taxed at the rates that Id have applied in the year they

Strings-Congress, however, want to make sure that the reserves sed for postwar expenses and not dumped into the company's general cash account. If it allows current deduction of reserves, it probably will attach a series of strings, like allocating them to specific expenses. 'Corporations don't like this because it is impossible to tell anything about the nature and size of postwar costs.

• The Treasury's Contributions-In the midst of the general debate over taxes, the Treasury has made two contributions: (1) a proposal that looks like a Ruml plan for corporations entitled to tax refunds under the carry-back provisions of the present law; (2) a weighty study of postwar expenses related to wartime income.

The carry-back provisions are among the big question marks in the present tax picture. Some business men think they are too good to be true and fear that they will be repealed. Others consider them worthless

 What the Law Allows-Actually, the present tax law permits two different kinds of carry-back or recomputation of one year's taxes in the light of the next year's income. A corporation which does not use all its excess profits tax credit in any year can carry back the unused part for two years, adding it to the credit it had in the recalculated years and reducing the tax correspond-

Similarly, a company that has a deficit in any year can refigure its taxes for the two preceding years, subtracting the deficit from taxable income.

 How It's Juggled—Take for example a company that had \$2,000,000 net income in 1943 with an excess profits tax

War Changes the U. S. Debt Picture

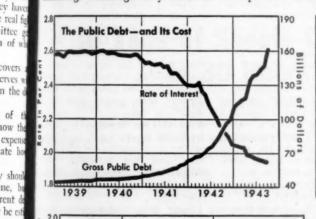
Treasury borrowing policy is leaning more and more on corporations and insurance companies, somewhat less on the commercial banks. The breakdown of sales during the Third War Loan Drive, released this week, shows that corporations took \$7,915,-000,000 of the \$18,943,000,000 total. Insurance companies and mutual savings banks accounted for another \$4,127,000,000.

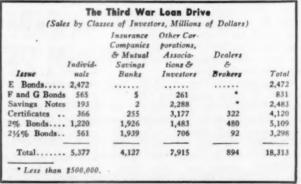
Commercial banks still carry a large part of the load of Treasury financing. Although they made no direct subscriptions in this drive, they put about \$3,000,000,000 into the money market through openmarket purchases and loans to dealers. Before the end of the year, they will lend the Treasury about \$3,000,-

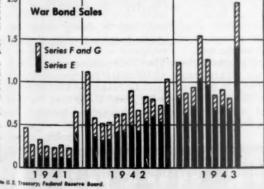
000,000 more on direct subscription. Since the first of the year, however, the increase in bank portfolios has lost speed (chart, lower right). Increased purchases by individuals have taken some pressure off banks, but the big factor is sales to insurance companies and corporations.

On the inflation balance sheet, purchases by institutional investors count as neutral. Since they represent money that would not be spent for consumer goods in any case, they neither increase nor decrease consumer purchasing power.

From the inflation standpoint, the best thing about the last drive was the all-time record for Series E war bond sales-\$2,472,000,000 including sales through Oct. 16 (the chart, lower left, shows September sales only)











STEVENS' RETURN

Chicago's Stevens Hotel is a beehive as maids unscramble remnants of furniture, and workmen rush refurnishing to reopen it as a hostelry on Nov. 1. After 13 months as an Air Forces training school, the "world's biggest" requires plenty of housework. Its new host, Arnold S. Kirkeby, who paid the Army \$5,251,000 for the Stevens (BW—Sep.18'43,p32), hopes to have half the 3,000 rooms ready for occupancy when the doors are opened.

credit of \$1,000,000. It paid normal and surtaxes (40%) of \$400,000 and excess profits taxes (81% net of postwar credit) of \$810,000, making a total of \$1,210,000.

If in 1945 this company just breaks even, it can take the unused excess profits tax credit for 1945 and add it to the 1943 credit. The picture then would be net income \$2,000,000, excess profits tax credit \$2,000,000, normal and surtax \$800,000, excess profits tax zero. The company would then get a \$410,000 refund.

If the company lost say \$1,000,000 in 1945, it could reopen the 1943 return and deduct the loss from net income. The income statement then would show 1943 income \$1,000,000 (\$2,000,000 net less the \$1,000,000 carry-back), excess profits tax credit \$1,000,000, normal and surtax \$400,000, excess profits tax zero. The refund would be \$810,000.

• Most of the Job—Although the Treasury hasn't come out solidly against all other ways of handling postwar expenses, it thinks the tax carry-backs will do most of the job.

One of the big objections to the way the carry-back works now is that a company doesn't get any cash out of it until it has taken its loss (or failed to use up its credit), filed the return, and waited for it to clear through the Bureau of Internal Revenue. Business men say if they counted on tax refunds to finance conversion they would have to close up their plants and leave the job to their grandchildren.

This is where the Treasury's "Ruml

plan" for corporations comes in. As outlined by Randolph Paul, Treasury tax expert, this plan would let corporations file a tentative estimate of anticipated losses as soon as they see a bad year coming.

If this goes through, companies will file application for refund on a tentative basis along with their regular returns on the previous year's income. Then they could offset the refund against taxes due and keep the difference to meet expenses.

• Good As Cash—For example, say a corporation owes \$1,000,000 taxes on 1944 income, but in 1945 it foresees a loss that will entitle it to a \$750,000 refund. Under the Treasury's plan, it would be able to apply for the refund when it files its return in March, 1945, hold back \$750,000 out of the reserves accumulated to pay 1944 taxes, and pay the Treasury only \$250,000.

The strength of this plan is that it takes advantage of the fact that all corporations accumulate heavy liquid reserves to pay their taxes. Hence, a tax rebate, if it comes quick enough, is as good as a cash payment on the spot.

In its current refund proposal, the Treasury thinks it has one idea at least that Congress will support. If it does, Treasury experts think the carry-back system will be all that most corporations need to get them through reconversion.

• Specific Items Listed—On other proposals for handling reserves, the Treasury is somewhat dubious. Its big report (which will tend to become a handbook for both sides as the argument warms

up) lists various expense that me charged to wartime income, eith specific tax carry-back or by setting reserves.

Dismissal wages, deterred in nance, direct reconversion costs, a Treasury's opinion, are legicharges against war income. Imlosses and obsolescence of facilities inventories are borderline.

Expenses of opening new marker getting into a new line of production to recognized as having amount tion to war income and consequence to the control of the

• Long Road Ahead—Even where charge against income is legitimate. Treasury points out that it is often possible to estimate it. Deferred in tenance, for example, is a sound con theoretically, but a statistician can any estimate of it he likes by choo an accommodating formula. So the a long road ahead before Compartives at a practical solution of postwar reserve problem.

Tools of Peace

Their wartime jobs do or accounted for, the makers machine tools look ahead to postwar world of industry.

Having completed its major job tooling up American factories for a production, the machine tool indust in convention at Chicago last we was left no doubt regarding its immidiate task. It has ahead a twofold p gram: building machine tools yet need by ourselves and allies; using its excapacity and special skills to midirect war items.

• An All-Time Record—The first ind try to feel the war prod, it climbed a idly to dizzy heights. It reached an time peak last December when shipped over \$130,000,000 of machi tools. That was seven times the peat time high.

Ch

mi

inv

ho

11

af

Since then, it has descended for the pinnacle, gradually at first a more steeply recently. It lost grout only slightly during September, shi ments being estimated at \$85,000,000 compared with \$87,000,000 in August The 1943 total promises to be or \$1,100,000,000 compared with trecord-breaking \$1,360,000,000 in 194 • Big Drop Ahead—But the productic curve ahead is definitely downgrad Next year's estimated volume looks is \$325,000,000, a tumble to one-four the industry's present capacity. It still, however, more than 50% great than any peacetime year. Readjustmen now under way conform to the industry's shrinking business. Two shifts at

RYERSON STEEL RACES ACROSS COUNTRY



10 Tons of Sheets Delivered 700 Miles in 30 Hours 20 Minutes

It is 4:10 P.M.-a truck with ten tons of sheet steel pulls away from the Ryerson Chicago plant. In a Western war factory 700 miles away, important production for Army invasion equipment is waiting.

Flying the ODT "Emergency Flags" with special permission to travel at 60 miles an hour, the shipment arrives the next day at 11:30 P.M.-just 30 hours and 20 minutes after the order was dispatched.

Two significant facts: The sheets so urgently needed were in Ryerson stock for immediate shipment. And Ryerson facilities and service measured up to the emergency.

Unusual? No! This order is only one of many Ryerson emergency shipments that are preventing production shut-downs in these critical times. Every day, Ryerson skill and experience are expediting deliveries of vital steel.

Next time you need steel in a hurry, whether it is sheets, plates, bars or beams-we urge you to call the nearest of the ten Rverson Steel-Service plants. Whatever you require, you'll get prompt, effective cooperation.

Joseph T. Ryerson & Son, Inc., Steel-Service plants at: Chicago, Milwaukee, St. Louis, Cincinnati, Detroit, Cleveland, Buffalo, Boston, Philadelphia, Jersey City.

RYERSON STEEL-SERVICE

that mg me, cit

crred a costs

cw marke of prode ving am conseq

egitimate it is often

ce

stry.

ies for ol indu

last we its im ofold

vet nee its exc to m

irst ind

nbed i

ed an

when. machi

he pear

ed fro

irst a

grou er, sh

0.000

Augus be ov

th

in 194

ductio ngrad



"You children are going to hear the music and voices of these people too!"

IN THOSE DAYS YOU DIDN'T CALL IT

"Electronics"

... but the first alternating current amplifier for 16mm. sound-onfilm was just as startling in its time as the electronic war-wonders
of today. It gave visual education and training such impetus that it is universally used today both in our schools and for instructing our Armed Forces.

Operadio looks back with pride to its pioneer work and engineering
contributions in this field . . . looks forward eagerly to applying electronics'
to your product or process when today's urgent war work is done.

OPERADIO PLANT BROADCASTING FOR MUSIC AND VOICE-PAGING . . . FLEXIFONE INTERCOMMUNICATION

OPERADIO

Electronic Specialists

OPERADIO MANUFACTURING COMPANY, ST. CHARLES, ILL.

SYMBOL OF ELECTRONIC Φ EXCELLENCE SINCE 1922

displacing three shifts; men going where or into service are not up.

More important, machine toole

nses 1

More important, machine tools tives are busy figuring on nonnatool war business. Washington couraging them, though they knowell that it is late to change over.

• Changes Now Made—Some as ready engaged in such work, making craft, engine, or propeller assembling parts, steam and diesel engine phomb parts, aircraft torpedoes, which is the steering gears, turbines, and prives for tanks and artillery items.

The shift away from machine however, is relatively slow. Some of the industry's capacity is still do to tools, only 9% to direct war (9% being idle). A survey by the division of WPB shows that 228 panies doing 88% of the August chine tool business have on hand 000.000 of direct war work, come with \$350,000,000 of machine too ders. Over 53% of the reporting panies have no direct work at all • WPB's Warning-The smallest have much more direct work than dium and large companies. (Thi understandable because the smalle company, the quicker it can turn and and get a job it can handle.) \ warns, nevertheless, that the rate conversion must be accelerated if industry's full capacity is to be l busy next year.

The shrinkage in machine tool ume is already bringing action. Imtories are being cut by most build so that they will be of reasonable portions before the war ends. Build remember vividly that 25 years ago to received staggering cancellations of ders overnight when the armistice care. Pool Almost Drained—They do want to get caught again. That's we they are pushing for, and hope to tain, some protection against cancel tions, perhaps in the form of pool ders with limited quotas for individucompanies.

The big pool, which provided an ubrella for the industry and enabled it go full speed ahead though specific ders were lacking, is being liquidate Of \$1,860,000,000 of pool orders in Feb. 1, 1941, all have been shipped assigned except \$83,000,000.

Her

per

argo-

tak

Up

ir, w

ro,

-giv

uic

erfe

ng I

• New Rule Hurts—One WPB raimposed a few months ago, has mait extremely difficult for war contracto to order machine tools on their own is such purposes as strengthening production lines and increasing production Such orders (known as PD-1A's) are ditinguished from those that are the dire responsibility of government agenci (PD-3A's).

They must be screened by passing through regional WPB offices to so whether existing machine tools are available to do the job. A large number of orders have been disallowed, and the

pses into the wonder world of tomorrow

ge over Some a

ssemblie

IV items achine f Some

t war or by the at 228 August hand s

orting o at all nallest f k than (Thi smalle urn aro he rate ted if o be l e tool n. Inv nable i Build s ago th tice can ey do

hat's w e to cance pool ndivid

d an u

oled it

uidate

ers sin

pped

B mi

s ma

tracto

own f

produ

uction

are di e dire

to s

ber (d th



"My freezing plant is up there . . . 35,000 feet UP!"

te this picture and conversation oon after the war."

Here's a commercial grower of as or strawberries or what-havebu, explaining how his produce ts to market. Picked at the time perfect ripeness, it is packaged nd loaded immediately on a go-carrying strato plane. Then takes off for the urban market.

Up, up, up it goes. Stratosphere ir, with a temperature 'way below ero, circulates through the cargo generatives the fruits or vegetables a wick freeze, refrigerates them erfectly all the way to the unload-ng point. Interesting? Yes-but peace is going to bring plenty of other startling innovations in distribution and merchandising. Stores will be full of new, improved products. And packages will be vastly improved, too. More efficient, more appealing, more self-selling. Prevention of spoilage and soilage will also be a "must" for every package.

We believe Cellophane will play an important part in post-war packaging. What we have learned during eighteen years of peacetime research, and what we are learning now in solving many vital

wartime packaging problems, will help to make that so.

FREE BOOKLET

An interesting booklet containing other advertisements in our Business Week series "Glimpses Into The Wonder World of Tomorrow" is yours for the asking. Write E. I. du Pont de Nemours & Co. (Inc.), Cellophane Division, Wilmington 98, Delaware.

BACK THE ATTACK WITH WAR BONDS



Cellophane

BETTER LIVING ... THROUGH CHEMISTRY THINGS FOR



Why paperboard is scarce

It's in the "woods" where we find the significant reason for present paper-board shortages. Many lumber jacks have left their wood-cutting for the armed services and for jobs in defense plants. The manpower shortage and unfavorable weather conditions have also affected the supply of straw used in corrugating materials as well as the collection of waste paper, both so important to the industry. Add to these difficulties the tremendous increase of war-time packaging demands, and the reasons for present shortages are evident.

Any relief in sight? The War Production Board has placed restrictions on the manufacture of some types of paper, and paper products, but unless current demand trends are radically changed; unless raw materials and manpower are visibly increased, paper production for '44 will meet only the most essential needs.

The production of The Hinde & Dauch Paper Company, one of the Nation's largest manufacturers of corrugated shipping boxes, is devoted to war needs. As a leader in the industry, H & D is endeavoring to procure sufficient raw materials to continue the manufacture of corrugated boxes

for war materials, Lend-Lease supplies, and essential civilian needs.



Sidnystohman PRESIDENT

HINDE & DAUCH

AUTHORITY ON PACKAGING WAR MATERIALS

EXECUTIVE OFFICES, 4361 DECATUR STREET, SANDUSKY, OHIO
FACTORIES: Baltimore * Boston * Buffalo * Chicago * Cleveland * Detroit * Gloucester, N. J. * Hoboken, N. J.
Kansas City * Lenoir, N. C. * Montreal * Muncie, Ind. * Bichmond, Va. * St. Louis * Sandusky * Toronto

screening time of ten days has strets
out into three or four weeks or los
• Russian Needs Fall—Included in
1944 estimate of machine tool ray
ments are the needs of Russia and
land. The Soviet was expected to
some \$125,000,000 worth of mad
tools next year, but in recent week
interest has slackened because its
mary aim was to get food.

sting

Two

add u

Carne

pecific

venty-eig

grief

last w

ent file use of F

teel pla Army,

mission nployee rict Co

ent suc

nine of w

Wor

cation

he suit

ged m

amoun

t susta

nowled

no cla

hulls

the

defen

in ac

ing ti

riding

ning

mitor

deral ich fi

s at 6

Just now no one knows what who of machine tools will be sent to sia. For a while, the proposal was a portion of the machine tools nom made in England be built here and to Britain, releasing some of its more power for direct war work. Not has come of that plan

has come of that plan.

o Four Beats 40—Like others, mach tool makers are thinking and talk postwar plans. They have produ more machines in four years than in previous 40, and they see difficult in ahead unless the huge surplus of gow ment-owned equipment is handled in ciously. They also see themselves wi out adequate reserves unless some mifications are made in the renegotat law and in the tax laws to permit cumulation of postwar reserves.

They strongly feel that they shot have a voice in the disposal of government-owned tools. There is no again ment among them as yet, however, a specific plan.

• Disposal Plan Sought—Their ide range all the way from trying to lo up all the munitions plants and the muchines in them for possible future emegencies (thus removing the tools for the commercial market) to distributi them to schools and government a senals and through lend-lease to foregountries.

Some believe the best thing is freeze the machines where they are others say the only solution is to a them out and into use immediately accompling the oldest

scrapping the oldest.

• A Bright Outlook—Though the after math of 1917–18 has taught the indutry that some companies are not like to survive the rigorous competition after this war, tool builders are not resigned to looking at an entirely black future.

Many of them see good busine ahead in retooling the automobile an other industries (especially those man facturers who are prepared to furnis special single-purpose, high-production machines). They see a good exportrade to countries in which industrial ization is catching hold.

e Optimistic Predictions—Offsetting the pessimists are those builders who believe that only by the development of the most productive machines and cost cutting methods in history can America provide jobs and production income of the broad scale that planners are proposing. The machine tool industry must necessarily be in the thick of suddevelopments.

24 · General News

Business Week • October 23, 194

sting Troubles

has street ks or loo luded in

tool requisia and I cted to

of mad

nt week ruse its

what volu ent to I sal was t

ols norm

re and

of its m

s, mach nd talk

produ

than in

icult tin

of gove

elves wi

ome mo

permit

ey show

no agn

wever,

eir ide g to lo

ure em ols fic

tributi

ment ; o foreig

ng is

hey a

s to g

ediatel

he afte

e indu

ot like

on aft resigne

iture. busine pile ar man furnis ductio exp

ing the believe of the

meric re pri

1943

es.

Two indictments plus two add up to plenty of worry Carnegie-Illinois Steel in pecification plates case.

enty-eight thousand tons dly subspecification steel brought grief to Carnegie-Illinois Steel last week when the federal govent filed a civil action for damages use of purportedly false tests made eel plate which was delivered to Army, Navy, and the Maritime

mission.

aployees Also Sued-In the U. S.

pict Court at Pittsburgh, the govict Court at Pittsburgh, its sales cy (United States Steel Export Co.), nine Carnegie-Illinois employees, of whom were employed at the Works, where the alleged test

Works, where the alleged test feations were made.
he suit asks \$2,000 for each act of ged misrepresentation and double amount of any damages the governsustained.

owledge Charged-Although makno claim that the steel for plating hulls was not suitable for the purthe government maintains that defendants knew the material was in accordance with rigid specifications when claims for payment were entered.

The government's civil action was piled atop a citizen's "informer" suit for upwards of \$2,000,000 against Carnegie-Illinois (BW-Mar.27'43,p7) and three indictments accusing the corpo-ration of concealing and destroying records concerning the steel.

• Tanker Involved-The story had its origin Jan. 16 when the tanker Schenectady broke up before it could be put to sea. Sen. Harry S. Truman's war program investigating committee opened hearings two months later after Henry J. Kaiser, West Coast shipbuilder, complained that faulty steel was responsible

for the tanker's breakup.

It developed that steel for the tanker did not come from the Irvin Works, and the American Bureau of Shipping reported that faulty steel was only one of four factors in the tanker's crackup (BW-Mar.27'43,p30). But the Truman committee heard testimony to the effect that on a small percentage of plate production at Irvin, tests were "pulled up" to required specifications. This was contrary to usual procedures of listing the actual test result and reporting it to the customer to ascertain whether he would accept the steel.

• Big Steel Explains—Estimating that 28,000 tons of subspecification steel (worth \$1,400,000) were shipped from Irvin, J. Lester Perry, president of Carnegie-Illinois, surmised that under wartime pressure, a few employees may have grown lax in testing procedures and passed steel they knew would be entirely suitable for shipbuilding purposes although below specifications.

Benjamin F. Fairless, president of the parent U. S. Steel Corp., pointed out that specifications call for steel three to four times stronger than absolutely necessary. He quoted a Maritime Commission official as saying that the plates in question would have been accepted had the deviations been reported. In line with Fairless' promise that those responsible would "walk the plank," four officials were suspended.

• Production Slumps-The ink on newspapers carrying the committee testimony was hardly dry before a Chicago attorney, Herman M. Cogan, filed an "informer's" suit under a Civil War law which would permit him and the government to collect double the damages sustained by the government (BW-Mar.27'43,p7)

As a federal grand jury convened in Pittsburgh to investigate, a slump in steel plate output was reported, and WPB Chairman Donald Nelson called on government and industry to avoid imposition of an overzealous system of testing and inspection which might

hamper war production.

Three Bills Returned-After a sixweek session, the grand jury indicted Carnegie-Illinois on a charge of concealing and destroying records of sev-

STY HOUSING

ing time, money, and materials in viding living space for workers in gested areas, the government is ning old buildings into modern mitories. Behind the project is the deral Public Housing Authority ich figures savings of critical mateat 60% to 75%. Typical of its k is the conversion of a 100-yeargranite-walled structure (below)

that once housed a cutlery mill at Newport, R. I. By overhauling its facade, installing new floors and plumbing, the authority acquired a simple but comfortable dormitory (below right) in no time. Its 208 units are completely furnished for occupancy (right). Thus far the FPHA has acquired more than 25 nonresidential buildings-former office buildings, resort hotels, etc.-that ultimately will







ess Week • October 23, 1943



Myva-Dry Vitamin A Powder—new dry form of vitamin A concentrate—permits fortification of many foods, pharmaceuticals

• Distillation Products, Inc., the home of high vacuum molecular distillation, has produced another "first" in the vitamin field.

Many foods and pharmaceuticals which could not use vitamin A in its oil form can now be fortified with this important vitamin.

Thanks to Myva-Dry, vitamin A concentrate is now available in *dry powder* form.

And Myva-Dry Vitamin A Powder is amazingly stable—more stable than any other commercial source of vitamin A, liquid or solid, which we have tested.

Get all the facts about this new DPI discovery. Test Myva-Dry yourself. Our Service Laboratory is ready to help your technical men.

dpi

Distillation Products, Inc.

755 Ridge Road West, Rochester 13, New York

Jointly owned by EASTMAN KODAK CO. and GENERAL MILLS, INC.

Sales Agent: Special Commodities Division, General Mills, Inc., Minneapolis 15, Minn.

"Oil-Soluble-Vitamin Headquarters"

eral hundred physical ordered by war agencic two more indictments accused the corporation and Law S. Dahl, general supernitendent vin, with conspiring to onceal in plate tests and named ten officer employees "co-conspirators" but defendants. The other charged the poration alone with falsely representate specifications for government were met.

awing t

In the

en usi

es to s

ng the

round

ar exhi

cases

nds an

unds

e injur

suturi

leave

Aid in

es are

ve be

um, r

her tv

rform

Robe

instee

tanta

t pos

ntativ

r mil

plaini aff th its a

AC/

Win

here

a slee

Last

ain :

ince nd it

Sou

ertisi

eople pite

Th

M

Doctor's War A

Rare metal, tantalum, now used by surgeons in ca of skull and nerve injuries, a in bone fractures.

Tantalum, a heavy gray metallice ment, is for the duration confined exacting tasks in the war effort. In cent months, as the result of say years of medical research sponsored Fansteel Metallurgical Corp., lar maker of this rare metal, an incread quantity is being used surgically in pairing bone fracture and skull, no and tendon injuries of American diers and sailors on the fighting to • Outstanding Example—Star exhoft tantalum's usefulness in repair skull injuries is a sailor who happ to be the first military patient patient up with this material. He was injuried.

ing was covered with a tantalum pla.

Allowed to go home on 30-day flough within a few days after the option, the sailor returned in two we demanding active service. Scoming office job, he passed the stiff tests submarine duty—and at last reports a handling his undersea task as well before he was injured.

in submarine service and underwen

operation by which a large head on

before he was injured.

• Rapid Rehabilitation—Many milit cases have undergone major skull s gery with tantalum implants, some these plates covering more area the entire forehead. Most of these mere back on their feet a few days at the operation; some of them return to active duty inside a few weeks.

A number of nontoxic materials habeen used for patching and fastenin in skull and other bone surgery, wivarying degrees of success. What hade tantalum acceptable to surger is that, although it is biologically ine it has one unique quality: Bone wigrow to it and over it, and so will satissue.

 Plates, Pegs, and Bolts—Consequent is that surgeons can do tricks with that were impossible with material previously available. Some of these is clude tantalum plates pegged to be fractures as reinforcements, and bold wing together joints which had been

parated by injuries.

ists on

A week ollowed

and Law

endent i

nceal fa

rs" but

arged the

represen

ernment

ir Ai

ntalum, ns in ca

uries,

metallic confined fort. In It of sev

ponsored orp., lan n increas

cically in skull, ne

nerican

nting from tar exh

n repair

ho happ ent patd was inju

head op alum pla 30-day f the ope

two we

corning iff tests

reports 1

as well

y milit

s, some

area th these m

days af

retum veeks

veeks.

erials ha

gery, wi

surgeo

ally ine

Bone w will so

s with materia

i to be

In the repair of nerves, surgeons have en using tantalum wire in many es to suture severed nerve-ends, wrapg the patched area with tantalum to prevent the nerve's growing into rounding tissue. The most spectacexhibits of this use are a number cases who have regained use of their nds and feet after shrapnel and bomb unds had severed major nerves, causinjuries which, by previous methods suturing, would have been expected leave serious impairments of func-

Aid in Plastic Surgery—Other surgical es are cropping up. Noses and ears we been formed with the aid of tanum, replacing parts lost in battle, and her types of plastic surgery have been

erformed.

Robert J. Aitchison, president of insteel, expects that the surgical uses tantalum should provide an import-at postwar market. A Fansteel repre-ntative is currently visiting every mar military hospital in this country, plaining to meetings of the surgical off the uses and techniques involved its application.

ACATION AT HOME

Winter vacations are going to be a the less possible this year than last. here will be no extra trains and no ex-

a sleeping cars. Last November the Office of Defense ansportation permitted one extra ain a day from Chicago to Miami. ince spring it has been discontinued; and it won't be restored.

Southern resorts and Mexico are adertising on a small scale, hoping that cople will be able to travel to them in pite of crowded trains and jammed airnes. Canadian railways will not have ny ski trains and will probably refrain m talking up Canada's attractions ntil after the war.

The rumor that food rationing isn't as ad north of the border, however, probbly will draw some vacationers, and the

affux to Mexico is expected to grow.

Many of the hotels on Miami Beach hich were taken over by the Army have en released (BW-Jul.10'43,p28) and, labor and materials can be found, will y to reopen before Christmas.

SCRAP" TOOLS STUDIED

With the Truman committee nosing nto the sale of surplus Army Air Forces utting tools at scrap prices (BW-Oct.2 43,p27), outlet dealers who bought hem have voluntarily frozen their stocks

ending reappraisal.

The bulk of the tools is still in Detoit in stores only a few miles from
the warehouse from which many of
them were sold at 40¢ a lb. They are



These are excerpts from a few of the many letters now on file in our office. They tell a worthwhile story.

HUGHES AIRCRAFT CO., Culver City, Col.—"Our Davidson is being operated 24 hours daily and the work produced has been completely satisfactory. We are ordering a second Davidson.

MADISON VOCATIONAL & ADULT EDUCATION SCHOOL-"We can produce long runs considerably cheaper than by letterpress . . . have had no mechanical troubles whatsoever. Reg-ister is perfect . . . very little time necessary in learning to adjust and reset.'

AMERICAN UNDERWRITERS' CORP., Olympia, Wash.—"We have more than saved the initial investment."

FIDELITY MUTUAL LIFE INS. CO., Philadelphia-"The machine has already enabled us to set up some long range economies in the proc-essing of our many regular forms—with improved quality."

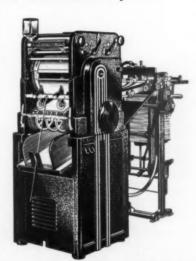
ALLIED OIL CO., Cleveland — "Our Davidson is doing a fine job . . . we are fully satisfied."

BAILY METER CO., Cleveland—"We have found our Davidson to be a good machine, doing everything it is supposed to do."

The Davidson, you know, is the duplicating machine that reproduces from direct or photographic offset plates, type, electrotypes, and rubber plates, providing five different methods of reproduction. And only a Davidson can give you all this in one machine.

DAVIDSON MANUFACTURING CORPORATION

1020-60 West Adams St., Chicago, Illinois Agents in principal cities of U.S., Canada, Mexico.



GET THIS FREE BOOKLET. It tells and shows how the Davidson operates and includes samples of the work it produces. Ask for your copy today. There's no obliga-



vidson

*The name "Davidson" is a trademark for the combination offset and letterpress duplicating machine (and other products) manufactured by Davidson Manufacturing Corporation.

One post-war certainty

Need for family protection will still be with us.

Arrange for it now







No matter what your fencing problem—it pays to get the benefit of Anchor's 51 years' experience on every type of industrial fence, barrier, and enclosure: chain link, barbed wire, woven wood, board, other special constructions. Anchor's 16 branch offices provide speedy nation-wide service. Write for Free Industrial Fence Catalog and name of nearest Anchor Fence Engineer. You may be surprised to learn how Anchor's experience can save you headaches, time, money!

Anchor Post Fence Co.

6670 Eastern Avenue BALTIMORE -24, MARYLAND



being appraised by a committee of government and industry men whose work is expected to be completed around the end of October

Air Forces officials said the purchasers of the tools had agreed to permit the government to repossess them if they are found to be worth considerably more than the prices paid for them. Opinion of tool men in Detroit was that around half of the \$1,500,000 stock consisted of standard, catalog-item tools. This pointed to repossession of perhaps a third of the tools still in stock, since a number of independent purchases had been made at original prices paid by the government.

Yule Firs Scarce

Shortages of manpower and transport, in both U. S. and Canada, are reflected in reduced supply of Christmas trees.

Disappointment is in store for many a flush war worker whose dreams of a white Christmas are associated with visions of an old-fashioned Christmas tree. The supply of trees, diminished by manpower and transportation curbs in Canada and by much the same thing in the United States, just won't stretch.

• Down to a Trickle—Dominion authorities have applied the squeeze in several directions, with the prospect that

exports to the U. S.—as many as 5.000 000 trees in prewar years—will slow off to a trickle.

Growers in Canada are denied but labor and transport, and the railrud are forbidden to haul trees in cars sui able for grain and other essential commodities.

• Shortage About 25%—U. S. control are less formal, dictated almost exclusively by the availability of imanpose and transportation. Normally, about 10,000,000 balsam firs, Douglas firs, as firs, spruce, and pines are cut for the Christmas trade.

Bu

at

Wher

air

d. Bo

gen

with

ical

ight

airc

Estimates are that the supply the year will fall 25% short of that figure because men can't be spared from essential lumbering and pulpwood operations and railroad boxcars and gondolas have more important jobs ahead.

Shortages are expected to be particularly acute in crowded war production areas, where demand will be shap ened by fat pay envelopes, but supplied war materials on truck and rain facilities.

• Where They Grow—The great ball of Canadian trees are grown in Nor Scotia, New Brunswick, and Quebe (largely balsam fir) in the East, and in the British Columbia (Douglas fir) in the West. The Canadians also have made a hit with the Scotch pine, noted for the persistence of its needles.

In the U. S., the north central and northeastern regions account for the balsam fir and spruce, the Rocky Mountains and Pacific Northwest for the



CHICAGO'S TUBE

Chicagoans are giving their new subway an enthusiastic welcome after waiting almost 50 years for it (BW— Apr.10'43,p58). At a midnight opening of the State Street line this week, literally thousands jammed the stations to inspect the modernistic appointments. Thus far, five years and \$34,000,000 have been spent on about five miles of the State Street line, connecting with elevated lines to north and south sides, and on the Dearborn Street line which must remain only 80% complete until after the war.

But how does n engine breathe at 6 miles up?

as 5,000, vill sloughth slough

S. control
ost exclusionanpowe

lly, about as firs, m it for th

apply thing the state of the st

lolas have

be par

be sharp ut suppl

claim o

facilities

reat bull

Quebe t, and in

r) in th

ave mad

noted for

ntral and for the cy Moun

for the

stic ap

n about

ne, con-

north earbon

in only war. 3, 1943 When a big bomber goes "upstairs," air gets thin. Rare. Murderously d. Bomber crews can breathe by using gen masks. But how about the en-

merican bombers help their engines athe with superchargers that feed air ier pressure into the carburetors.

ome superchargers spin their fans re than 21,000 times a minute. Heat to a red-hot 1200° F.! Any steel that a stand punishment like that has to something very special!

rey special steels are the order of the with United States Steel during these ical times. Armor-piercing shot; lightight steel sheets and seamless tubing aircraft; strong, pencil-thin barrage loon cables; stainless steel wire finer nhuman hair—these are just a few of 3. Steel's "very specials" for victory.

lew steels for you when peace comes

me day (soon, we hope) the war will won, and trade-marked U·S·S Steels lbe free again to serve in the manuture of peacetime products. The U·S·S bel, placed on the goods you produce, lbe your customers' assurance of lity steel.

NEW STEELS FOR AMERICA

IT WAR BONDS EVERY PAY DAY

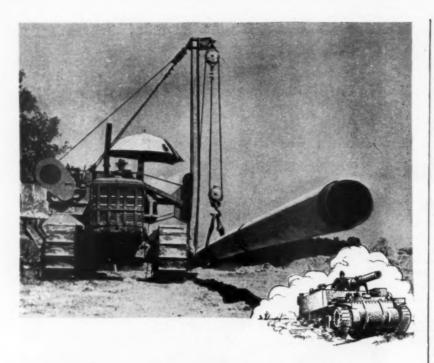
neary yer loon builds America's war strength.

In spain to spand in years to come . . . for new

Main, products of steel, things for better living.

CHI SRIDGE COMPANY - AMERICAN STEEL & WIRE COM1807LE MANUFACTURING COMPANY - CARNEGIE.
82 STEEL COMPONATION - COLUMBIA STEEL COMPANY 187 STRCE DIVISION - PEDERAL SHIPSUILDING & DRY
COMPANY - NATIONAL TUBE COMPANY - OIL WELL
F COMPANY - TENNESSEE COAL, IRON & RAILFORM
187 - TUBULAR ALLOY STEEL CORPORATION - UNITED
187 STEEL KEROPT COMPANY - UNITED STATES STEEL
F COMPANY - UNIVERSAL ATLAS CEMENT COMPANY.





Words...or weapons?

Long on talk . . . short on action -that's how our enemies regarded American war production a while back. Now they know that our "big talk" about building pipe lines, rubber plants, ships, aircraft and weapons of all kinds has been matched by the actual performance. Yellow Strand Preformed Wire Rope has advanced this program at thousands of points. And you have aided directly by choosing long-lasting Yellow Strand ... employing it efficiently . . . sharing your ropes with other essential users.

In contrast to resolute words which give no comfort to foes, there's talk of another sort that we can profitably curb. Casual "small talk" about individuals in service ...troop movements...new phases of production. Pieced together like parts of a puzzle, these fragments may reveal some big military secret to listening enemy agents. So our government says: "Don't repeat even little things about the war effort unless they've been published or broadcast. Think before you talk."

The safe course is to let your actions speak for you. Continue to work...to cooperate...to conserve vital materials, including the *Preformed* Yellow Strand that our fighting forces and war industries need in ever-growing amounts. There's no better way to help them silence the Axisforgood.

Broderick & Bascom Rope Co., St. Louis

Branches: New York, Chicago, Houston, Portland, Seattle. Factories: St. Louis, Seattle, Peoria

YELLOW STRAND

PREFORMED WIRE ROPE

REST RIP

8 & 6's Army-Navy "E" Flag, Three Times Won, Means that WE SERVE THE GOVERNMENT AS WE SERVE INDUSTRY: WITH DETERMINATION THAT OUR ENTIRE ENERGIES AND RESOURCES SHALL HELP TO WIN THE WAR Douglas fir, California for the and the South for the various specifies.

• Balsam Preferred—Balsam fir preference because of its pleasant its well-formed branches, its eshipment, and because it does not its needles quickly.

• Seedlings Maturing—Millions of lings were planted in state and materials forests in New York, Pennsylvania New England during the depression forestation era, and many of these are approaching maturity.

The U. S. Forest Service encounter planting of Christmas trees to they can be harvested at a profit in 15 years without interfering with servation programs.

servation programs.

No Price Ceilings—Nothing than conscience and the law of a and demand will control the price ers may charge for trees this year.

OPA decided against imposishedule of ceiling prices because trees are harvested under varying ditions and they are both seasonal perishable.

In the past, prices have ranged 75¢ for the table-size to \$5 for a tree.

Synthetic trees have all but a peared, due to scarcity of paper and

Maryland Quinir

Seedlings, grown in U from seeds saved in the fal the Philippines, will be given Latin-American countries.

Thousands of flats of cinchona slings from six to fourteen inches the ready for air shipment to Latin Am to grow trees from which quinine be extracted. They have been grown some of the 2,000,000 seeds flout of the Philippines by Col. At F. Fischer as the Japs came in. Bet Morrison has been growing them ut glass in the Dept. of Agriculture extraction at Glendale, Md.

May, 1942, half the seeds have he planted in batches six months at They probably won't produce quifor eight years although, in emerge they could be cut in two years. Beet these seeds were high class and produce a prize little forest, they re ing husbanded to bring back to Americas a tropical industry that transplanted, like rubber, to the Net lands East Indies.

Morrison is an old hand with a plants. He has nursed cinchona slings for some 15 years. He has wate the unsuccessful experiments in Virgin Islands and Puerto Rico. (Pu Rico's trees may prove to be goods)

GENERAL anough + bi The production of plastic parts in quantity to meet the most rigid specifications is not a new routine for the men and women of General Electric Plastics. Workers in every department have had years of pre-war experience building plastic parts for essential Army, Navy, and civilian use.

or the n ious spe am fir pleasant , its a does not illions of and na

nsylvania depressi of they ce encou trees be profit in ing with othing law of ne prices lis year. imposi becaus varying seasona ranged 5 for a ll but d aper and

uinir n in U the fal

e giver ies.

nchona nches tal atin Am quinine been g Col. Ar e in. Be them u lture ex Md.

arrival s have b

onths a

nce qui

emerge

ars. Bec

ss and

, they're

back to

ry that

the Net

with t

chona :

has wate nts in ico. (Pr c good er 23, 1

The Plastics Divisions of General Electric are producing plastic parts today that far exceed in quantity and quality those of former years.

If you are building vital war equipment requiring plastics with unusual physical or structural qualities, our nearest representative should be contacted immediately.

General Electric, the nation's largest molder, is prepared to put at the disposal of any industry the facilities of its plastics plants and the knowledge of its personnel. Whether the product you build is a spinning bucket, an electrical device, a milking machine, or a steel mill, plastics can be used to improve its quality and performance.

For further information write section B-II, One Plastics Avenue, Pittsfield, Mass.



al Electric radio programa: "The G-E All Giri Orchestra" Sunday 10 P.M.—E.W.T. NBC. "The World Today" news every weekday 6:45 P.M.—E.W.T. CBS ee of the General Electric Company are on their jobs producing more goods and buying over a million dollars of War Bonds every week to hasten victory."

bearers. The Puerto Rico project was sponsored by Mrs. Roosevelt and Gov.

Rexford Guy Tugwell.)

• Countries Involved-Morrison leaves this month for a tour of projects in Guatemala, Costa Rica, Peru, and perhaps Brazil, Latin-American countries that are receiving his gift of seedlings. And if his trees turn out as well as present indications promise, the Dutch East Indies' world quinine monopoly will be broken.

Cinchona is hard to grow. It needs water and drainage at the same time, altitudes between 3,000 and 7,000 feet, sun but not too much, no frost, and soil that allows deep root growth.

The tree has to be completely destroyed for medical use. Its alkaloids are extracted from twigs, bark, and root -so a continuous supply of new plants is essential.

• Unpredictable Market-Latin-American countries have been cooperative in bringing quinine back to America, but hesitant about investing much money because they aren't sure that there'll be a market eight years from now when the trees mature. Brazil is leading in the technical assistance, but Merck's growers in Guatemala have a lot of knowhow, too.

Substitutes for quinine, like atabrine, have peculiarities that leave quinine still desirable so far. Some persons are allergic to atabrine; some can't ever eliminate it. And quinine apparently attacks the malaria microbe at a different stage of its growth from the synthetics.

• Wild Trees Utilized-The U.S. is getting quinine from so-called wild trees in South America and has agreed to replace the trees our medical needs destroy with seedlings. Peru will probably get this season's shipment.



With 65,102,295 tons of iron ore already shipped, mines can meet quota if the weather holds out until December.

Despite almost a month's delay in the opening of navigation last spring and intermittent fogs and ship accidents that later impeded traffic, the Great Lakes iron ore fleet is well on its way toward its 1943 quota of 86,500,000 tons. The preseason goal was 95,000,000 tons, about three million more than the record-breaking movement of iron ore last year (BW-Dec.19'42,p17), but the Office of Defense Transportation revised the quota after WPB indicated it would be satisfied with the lesser tonnage.

• Hampered by Fog-The 1943 ore shipments from the upper Lakes totaled 65,102,295 tons to Oct. 1, as compared with 72,441,453 tons on the same date last year. Shipping was hindered by foggy weather in September, but loadings totaled 12,677,985 tons, which was 897,540 tons less than the same month in 1942 and a little short of the 13,000,-000 tons scheduled to be moved in

September.

The schedule now calls for delivery of 12,000,000 tons in October and 9,500,000 tons in November, which would achieve the 86,500,000-ton quota. But it will be nip and tuck if the weather doesn't improve. However, there is the possibility of adding about 750,000 tons in the few remaining days of shipping before the winter tie-up in December. · Icebreaker Ready-The U.S.S. Chap-

parrall, old car ferry converted into an

icebreaker for the Coast Guard, more from Duluth drydock recently to Sa Ste. Marie to be ready to keep the sh ping lanes open for traffic in that both neck area in late November and Dece ber. While the biggest icebreaking is in the spring, there is addition always the possibility of an ea freeze-up at the end of the season s as that which occurred in November 1926, when 247 carriers were held f in the ice for ten days in the vicinity the Soo.

ports

nor

fore th

00

ould

and

Barre

ctories

ankly

er fro

Hop

Bus

In peacetime, Nov. 30 was conside the end of the ore shipping season, the normal insurance rates remained effect until midnight that date. But wartime, high shipping risks must taken, and traffic continues until f

freeze-up.

• Four Carried Grain-During midsur mer, only four of the 318 ore came had been diverted to carrying grain, by after mid-November, when iron ore be comes frozen and requires steaming pour down dock chutes into boat hold more of the vessels go into the gra trade. The ore fleet was augmented the season by 14 ships of 18,000 tons or pacity built by the U.S. Maritime Com mission and put into service as the were launched-three as late as las month. Two more are nearing comp tion. Stocks of iron ore at lower Lak ports and furnaces are about 4,000,00 tons below a year ago, but if the 86,500 000-ton quota is reached, stocks on han next May 1, when navigation will have been resumed, will constitute a safe margin of 40 to 50 days' supply, open tors explain.

In addition to the ore carriers, more than 200 other vessels ply the Great Lakes, hauling grain, limestone, peto-leum, coal, and other bulk freight. On carriers haul the bulk of the coal of their return trips to the upper Lakes.

• Elevators Jammed-Bulk freight commerce on the Great Lakes in 1942 totaled 178,577,828 tons. Of the amount, 1942 grain shipments from U. S. and Canadian ports totaled about 9,000,000 tons. Grain shipping this summer increased over last, although some ports, such as Superior, Wis., have not been able to ship out grain as rapidly and consequently must contend with serious congestion in elevators, still bulging with last year's holdover. Some grain is moving out by rail to points as far south as Texas.

The pace of grain shipments will be accelerated in November and December as iron ore movement tapers off. Despite the fact that many boats are now carrying ore which would normally be carn ing grain, ore shippers still aren't satisfied. They say that grain movement that far has cut iron ore deliveries by about 1.500,000 tons.

 Sent Back Empty—The season total of coal loaded into boats at Lake Erie port



Tended with infinite patience, thousands of flats of delicate cinchona seedlings await air shipment from the U.S. Agriculture station at Glendale, Md., to Latin America-another step in breaking the Far East's quinine monopoly. Grown from seeds flown out of the Philippines a jump ahead of the Japanese, the seedlings will mature in about eight years.

Sept. 26 was 32,975,210 tons, against 188,842 a year ago because ODT has t some ore boats back up the Lakes pty rather than have them lose time ding coal. Nevertheless, Lake Super ports are counting on getting a milmore tons than they had last year fore the season ends.

ard, mou

fly to San p the shi that bott

nd Decen reaking p

11 addit cason sp

Novemb e held f

Vicinity

considere

scason, f mained

te. But must

z midsum re carne

grain, h

on ore b caming t

oat hold

the gran

tons ca

as the

comple

wer Lak .000.00 86,500,

on hand

will have

a safe

coal on

Lakes

ht com-

n 1942 Of this

s from d about

ng this though

s., have

rapidly d with

ll bulg-

e grain

will be

ember

espite

carrycarry

satis

t thus

about

otal of

ports

1943

oo Few Barrels

Even though production ould exceed 1941 rate, there on't be enough to meet deand for shipping kegs.

Barrels and kegs won't roll out of ctories fast enough in the fourth larter of this year to fill all demands, imarily because of labor shortages in e southern woods. WPB and the operage industry advisory committee nkly don't know what the demand Il be, but after looking the situation er from the production end, they feel that 18,750,000 units can be med out-3,750,000 from the tight poperage plants and 15,000,000 from ack makers. At that rate, the industry ext year could beat, by 2,000,000 units, te 73,000,000 barrels and kegs of all inds made in the "normal" year of

Hope for Deferments-Better saws for oodsmen and labor-saving machinery or finishing staves and heads are easing he situation somewhat, and if Selective ervice will defer forest workers, manuacturers of containers will be happy,
rs, more
they aren't so eager to get permission
to Great to raise wage scales because high pay
the petrot meaning absenteeism among too
the or many Negro woodsmen.

Only lard barrels and those for foun-ain sirups, vinegar, and shortening sed to make more than one trip. Other ight barrels which used to make only me trip now make five and slack bar-els make three. This leads to some stronomical figures. There are 30,000,-000 slack barrels and 30,000,000 slack legs in use; each is capable of supporting about 150 lb. Multiply by three and you can theoretically transport 27,-000,000,000 lb. a year. There are in 18e 8,000,000 tight barrels and 7,000,-000 kegs capable of bearing 300 lb. each; multiply by five and you can ship 22,500,000,000 lb.

• Empties Are Useful-Whisky barrels are no longer being made, and distillers' stocks have aided the transportation of war material because, once such a bar-rel has been used to age whisky, it is not customarily used again. Hence it betomes a vinegar container or something else. Beer barrels are scarce; metal being forbidden, they are now made of laminated veneer.

War shipments in barrels include



When you want to know

GO TO AN EXPERT

IT'S LOGICAL, isn't it, to ask your printer's expert opinion when you want to know what brand of paper to use for your office letterheads?

We'll stand on his decision. We feel we can afford to, having for years supplied the experts in the business with fine papers for every printing purpose. He'll also tell you that the extra prestige

of Rising quality doesn't cost you a penny more.

(Roing

Among others: Rising Bond (25% rag), Rising Line Marque (25% rag), Finance Bond (50% rag), Rising Parchment (100% rag). The Rising Paper Company, Housatonic, Mass.

ASK YOUR PRINTER-HE KNOWS PAPER

foodstuffs, chemicals, ammunition cups, chains, Thanksgiving turkeys for overseas, and much other meat. Dry skim milk will take 597,000 barrels in the fourth quarter, sugar 350,000, dried eggs 250,000, and fish 113,000.

• Fisheries Demand More—Barrels may be used for chemicals only if those chemicals can be packed no other way. WPB is a little worried about growing demands from the fish industry for more barrels. It is directing meat packers to go after secondhand barrels. It looks with a jaundiced eye on the barrels shuttling between Cuba and Florida carrying gin (BW-Aug.14'43,p20).

Hemp Slows Up

WPB is cool to domestic product now that imports have improved, but CCC and DPC have \$25,000,000 at stake.

A \$25,000,000 hemp headache is beginning to beat upon the financial temples of the Commodity Credit Corp. and the Defense Plant Corp.

and the Defense Plant Corp.

The Chill—It comes from the cooling of the War Production Board's ardor for domestic hemp, as imports of hemp and sisal from Central and South America increase, as prospects for importations of Italian hemp rise, and as jute from India goes increasingly into cordage.

Hot for hemp a year ago, WPB promoted a big expansion program. CCC

guaranteed domestic producers \$30 to \$50 a ton for hemp straw. DPC financed the erection of 42 hemp mills at \$360,000 a mill. Financing of harvesting and milling equipment runs the total beyond \$25,000,000.

• Seed Failure—Both corporations, however, would have more at stake were it not for a partial failure of the 1942 crop of hempseed in Kentucky. This was wanted for planting to straw this year of 300,000 acres, mostly in the Corn Belt, to yield enough fiber to keep 71 mills busy. Due to the Kentucky seed failure, only 175,000 acres were planted to straw.

The project has been ill-starred.

First, the Kentucky seed growers complained that CCC's buying price for 1942 seed (\$8 a ton) was too low, and its selling price (\$11 a ton for the same seed cleaned) too high.

Kentucky straw growers complained that they were stuck without buyers for straw the government had induced them

• Price Increased—CCC upped the buying price for 1943 seed to \$10 a ton and agreed to buy the 1942 straw.

These difficulties resolved, the Agricultural Adjustment Administration rushed out its men to sign up Corn Belt acreage for 1943.

Twenty thousand farmers signed, but later their dreams of \$200-an-acre hemp (four tons to the acre at \$50 a ton) faded when storms flattened part of the crop.

 All Wanted Mills-Meanwhile, every Corn Belt community was urging its selection as a mill site, and the DPC as into more trouble when bid got sens bled over misunderstanding at structure details.

Two mills have been built to de the others are scheduled for complete by December.

by December.

• Surpluses Ahead?—Latest blow in WPB's coolness. Besides 300,000 to fhigh-priced Corn Belt straw, now in production, the CCC may have 500,000 but of new seed this year.

Forage Goals Rise

Shortage of livestock feed leads to government drive for improvement in hay and pasture crops; seed ceilings set.

Wartime shortages of livestock feels have put new emphasis behind government soil conservation drives for improved pasture and forage crops, especially in the South. Pasture improvement is especially promising under current circumstances because green forage can replace many of the high-protein supplement feeds which are in particularly tight supply (BW-Oct.2'43,pl4).

Top Prices Set-Ceilings on the most important forage crop seeds were set recently by OPA to check prices that have been soaring as a result of smaller crops, reduced holdovers, and increased demand, including lend-lease purchases for current shipment and for postwar rehabilitation stockpiles. Northern alfalfared clover, sweet clover, and timothy seed are covered by the order.

General price levels of last spring are the goals. Typical: \$35 a cwt. for Northern alfalfa, which sold for \$18 two years ago. Bluegrass and other seeds used in turf mixtures are omitted because OPA wanted to keep off the lawns.

Scarce though fertilizer is, the Food Production Administration has recently done a lot of figuring which will probably lead to even more intensive attempts to increase forage and other food crop yields by more liberal use of nitrogen, phosphoric acid, and potash. • Phosphoric Potentials-For instance, forage crops could normally be expected to use minimum needs of 275,000 tons of phosphoric acid, with expectable average yields of 30 tons of forage per ton of this fertilizing element or a total of 8,250,000 tons of forage. But more liberal addition of phosphoric acid could be expected to boost total production by another 12,400,000 tons, an increase of 150% over normal.

the

Such an increase in pasture and hay would be of major importance in meeting feed deficiencies for next year's live-stock program. Comparable increases in the crop could be obtained by similarly



GLOBAL FARMERS

Composing the latest of a series of delegations that have been trekking to England as observers since the war began, three farmers study their route on a globe at Washington. They will represent lend-lease in surveys of

farming methods that have made the United Kingdom 66% self-sufficient agriculturally—compared with the prewar ratio of 33%. Making the tour at Britain's behest are (left to right): Oscar Heline, Marcus, Iowa; Earl Robinson, Mondovi, Wis.; and Robert J. Howard, Sherburne, N. Y.

Courtesy Norris Stamping and Manufacturing Co., Los Angeles, Calif.

SOFTENING A HARD PRODUCTION PROBLEM

SEVERAL of the toughest problems in converting cartridge cases from brass to steel have been solved by TOCCO. For example:

DPC a got scran

blow 0,000 to w, now i

Rise

rive for pasture

d govern for im pps, espe improveinder curen forage h-protein particu-†3,p14).

ces that

smaller ncreased urchases stwar re-

alfalfa.

timothy

ring are

wt. for

or \$18

other

mitted

off the

e Food

as re-

ch will

tensive

use of

otash

stance, pected 0 tons

etable ge per i total

more could on by

l hay meetliveses in ilarly

1943

Forming the mouth of 3" case by cold-drawing causes work-hard-ening. This area should be ductile, to permit crimping to the projectile and to assure a gas-tight seal in the gun on firing. On the other hand, the side wall up to the mouth should be hard and "springy" to withstand the high firing pressures and still

permit easy extraction of the case after firing. The hard-to-soft transition zone should be accurate.

The answer was found by annealing the cartridge case mouth. TOCCO Induction Heating applies a uniform amount of heat for an exact length of time to a definite, prescribed area of the case . . . softens the mouth without affecting the side wall . . . assures accurate results on every single piece at a high production rate.

Material treated is SAE 1030 spherodized steel. Heated to 1300° F. Heating time per shell 4 seconds. Hardness before, 98 R.B.; after, 70 R.B. Output per machine (2 stations), 1000 cases per hour. TOCCO machine is clean and compact; doesn't require skilled labor.

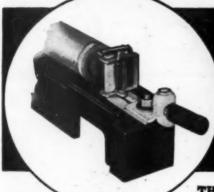
Find out how TOCCO can help solve your annealing problems . . . your hardening, brazing and heating problems, too . . . present and post-war.

THE OHIO CRANKSHAFT COMPANY, Cleveland, Ohio



HARDENING.. BRAZING
ANNEALING.. HEATING

*



A Tightly Held Fuse Means A MORE PERFECT CONNECTION

THE INGENIOUSLY DESIGNED & RAMKLAMP FUSEHOLDERS SHUTLBRAK Switches

N (A) SI

clamp the fuses tight. Insert the fuse — turn the lever — and you have a copper-to-copper connection under strong and continuous pressure.

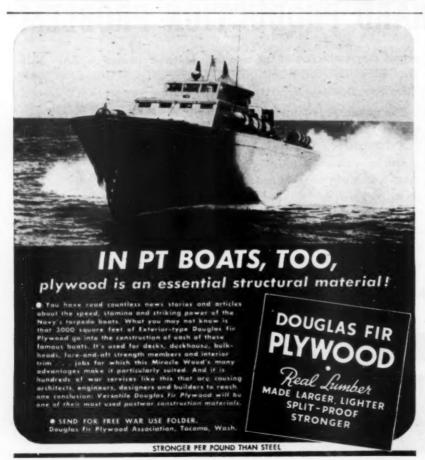
Convenient, too, are the Pressure Type (Solderless) Connectors, which make possible quick, sure connections with both line and load wires or cables—connections which will not "sase up" or become loose.

Because of these and other outstanding advantages, plants producing war materials have purchased thousands of these switches. Some are used singly —others are banked in groupsor assembled in well-designed switchboards or panelboards. Still others are installed as plugin units for Bueduct.

Capacities: 30 to 1200 amperes, inclusive, for 250 volts AC or DC, and 575 volts AC, in 2, 3 and 4 pole types. Approved by Underwriters' Laboratories, Inc.

For Detailed Information, write for Bulletin No. 70 Frank Adam Electric Company, Box 357, St. Louis, Missouri.





productive additions of mitrogen a potash, FPA estimates.

• How Much Will There Be?-The question now agitating the experts. How much extra fertilizer could be was gled out of WPB for such a programa boosting pasture and hay productive Fertilizer tonnages involved in the Fredering exceed 3,000,000 for all tan hay as compared with 395,000 for conthe next largest unit involved.

WAYBILLS MADE EASY

Railroads are promoting a new g of bill-of-lading blanks that save the time and mistakes by having the shippe make out the train conductor's way bill as a carbon copy of the origin shipping order.

Ordinarily, railroad freight clerks fl out the trainman's copy, transcribing the description and other pertinent shipping data from the consignor order.

As revised by the Assn. of American Railroads in July, the new blanks climinate extra clerical work and preclude copyist errors.

The shipper-made waybill, already in use, is similar to the old standard form A major difference, however, is that all basic data needed by train crews are listed on the left side of the page in deference to conductors' traditional habit of folding them left side up.

The new A.A.R. "B/L" sheaf contains four copies: the original (for the consignee), the waybill, a shipping order, and a consignor's memo. For government shipments, requiring copies in triplicate (or more), extra carbons can easily be added.

MAILING LABEL SAVES PAPER

Always beating their brains for new paper-and-ink tricks, direct mail specialists are tackling the necessity for paper conservation with their customary verve. In their diligent efforts to transmute an inert mailing list into pulsatory flesh-and-blood individuals who will respond to their hypnotic powers, the business reply envelope is an indispensable device. Rumors from time to time that its use might be banned have spurred the ingenuity of direct mail experts.

One result has been the increased use of business reply labels which prospects may stick on any envelope. These labels usually have a gummed back, and a further refinement now is making its appearance. Instead of a perforated instruction tab which must be torn off before use, Troy M. Rodlum of Washington, D. C., simply has printed on the face of the label itself, "Attach label to any envelope and mail to."

This cuts label cost and makes feasible the printing of these labels in rolls if the customer wishes. It also retains the design which postal workers are ac-

customed to working with

100 Amp. 575 Vall

Cat. No. SA-10633

TIME..

a modern manufactured product

There is nothing we can do which will increase the number of seconds in an hour—or the number of hours in a day—but we can make each second and each hour more productive.

In that sense, Acme-Gridley Automatics actually manufacture time—by producing more.

In war production, time saved is important because it means quicker delivery of the tools and equipment that win battles.

In postwar production, time saved will be equally important, through its effect on the cost of finished goods.

It is also important to remember that production with Acme-Gridleys may be speeded up to the limit of what tools will stand without any sacrifice of precision or uniform high quality.

Better goods to sell—at lower prices—will be a sound basis on which to enter postwar markets, at home and abroad—a basis that Acme-Gridleys will help to establish.



ACME-GRIDLEY AUTOMATICS maintain accuracy at the highest spindle-speeds and fastest feeds modern cutting tools can withstand.

The NATIONAL ACME Company

LEVELAND . OHI

Business Week • October 23, 1943

experts a caperts of the caperts of

trogen a

or all tan 00 for con ed.

a new se save then the shippe ctor's way the original

clerks fill cribing the it shipping American

preclude already in lard form, is that all crews are page in raditional up.

up.
heaf con(for the
pping orFor govcopies in

for new specialor paper y verve. nute an y fleshrespond

ble dene that spurred experts. sed use ospects e labels and a

ing its ted inorn off Washred on h label

feasin rolls retains nre ac-

1943

THE WAR-AND BUSINESS ABROAD

Behind the Kremlin Front

First objective of the historic Moscow conference will be three-way determination of the future of Europe. Russian stand on exile governments raises problems. Soviets join lend-lease.

Behind the crenelated walls of the Kremlin, the stagehands are busily rigging the sets for the most momentous conference of this war.

Those who work are no mean craftsmen: Britain's Anthony Eden, America's statesman Cordell Hull, Soviet Russia's Viacheslav Mikhailovitch Molotov. Offstage, with briefcases and memoranda, stands a host of prompters: top military, economic, political, and proto-col specialists ready with the tools of their craft—facts, theses, and opinions. • Later, the Principals-Onto this stage in time will come Roosevelt, Churchill, and Stalin-the leaders of the world's three greatest powers-to concur or to compromise on the final military stratagems of victory, the preliminary steps toward peace and security, but most important, the principles which are to be the common denominators of future United Nations actions.

Unless the Anglo-American diplomats have laid a second front on the conference table, the discussions will be conducted in an atmosphere of grim accusation. At sunset the batteries of victory cannon will rattle the windows of the Kremlin, and gay rockets piercing the night will penetrate to the dimmed conference rooms. The Red Army, marching relentlessly and at great cost toward the west, will be an ever-present factor in the decisions.

• Times Have Changed—Twenty-eight months ago, the alliance of Britain and the United States with Soviet Russia was a freely acknowledged marriage of convenience, a quick gesture of support—in the words of Prime Minister Winston Churchill—for any man or state that stood between Hitler and the gates of India and China.

Today Russia dominates her allies on the field of battle, carrying the war to the west with armies and equipment superior in number and quality to those that met the aggressor in 1941.

Even in the political sphere, the performance of the Red Army has sapped the prestige of the Anglo-American bloc.

And what credit Britain and the United States can take for their contributions of material aid is measured lightly by a nation which admits the loss of some 6,000,000 of its youth, billions of dollars of property, and many years of marching toward the fulfill-

ment of its ambitious industrialization program.

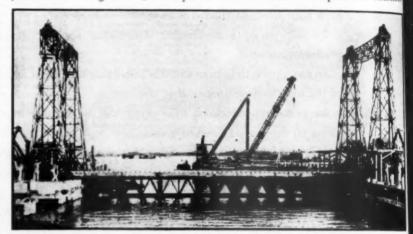
• Broader Lend-Lease—Thus, the importance of timing this week's announcement of a U. S.-British-Canadian lend-lease agreement with the Soviet Union to coincide with the commencement of discussions in Moscow cannot be measured in Anglo-American terms.

However, there is much that is significant in this agreement, notably the

formal acknowledgment of Canada's a sumption of rank with Britim and in U.S. as a producer of arms and food a excess of the needs of her military form overseas. In addition, and perhaps may ically, the agreement is marked by Rissian commitments to provide recipion aid to all three consignatories.

• The Problem of Europe—Uppermonamong the objectives sought by the Anglo-American participants at the conference is agreement upon the necessity of a joint, three-way determinates of the future of continental Europe.

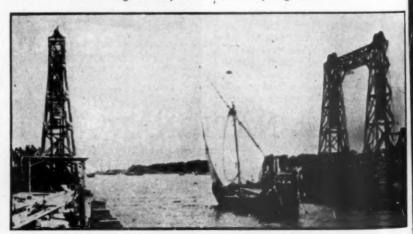
Europe is a Russian problem, as the war amply demonstrates, but with ps mary emphasis upon the Baltic and Balkan states, and Poland. Europe is historically a British problem by with of the fact that literally nothing can happen on the Continent that lies out side the sphere of British capital or hal ance-of-power alliances. And in a shrinking, interdependent world, Europe habecome an American problem--addition-



SUBMERGING SPAN

At a Shatt-al-Arab River crossing in Iraq, one of the strangest concepts of a drawbridge carries road and rail traffic when it's up and permits ships to pass when it's down. This reversal of usual movable-bridge activity is ac-

complished by a 35-ton span across a 92-ft. channel. In up position (above), it rests on beams which are slid aside manually to allow it to drop 20 ft. under water for boat passage (below). Native muscles on four-hand winches raise and lower the span built by British Army engineers.



tuin and a and food; ditary for

Canada's

Thaps in ed by R recipi

ght by th at the co the nece terminati Europe. m, as th with p Baltic a Europe by virh thing o

it lies or ital or ba

n a shrinl

шгоре Е

-addition

across a

above

d aside

20 ft.

below . vinches y Brit-

1943

Just for a moment . . .

While you are standing there, listening to the roar of your plant's war production, and looking ahead . . .

May we stand beside you? May our management look ahead with yours?

Out there is America. Its forests and farms. Its highways and waterways. Its cities of soaring buildings, and those that are yet to be built. Out there is your plant's future, your men's jobs.

If it is your plant's destiny to help harvest the forests or farms, to help travel the highways or waterways, to help build the buildings, then better power for all of those jobs cannot fail to interest you.

Better power is our future. Rugged, safe, low-cost Diesel Power. Proved in peacetime, and now proved again in war-in diesel generating units for the Signal Corps and Engineers, auxiliary units for the Navy, in fighting power for our armed forces everywhere

As your needs for such power become clearer, let us tell you how we can help. 5 horsepower to 2000. Rogers Diesel and Aircraft Corporation, 1120 Leggett Avenue, New York 59, N.Y. Divisions: Hill Diesel Engine Company, Edwards Company, Edwards Aircraft Products, Inc., Ideal Power Lawn Mower Company.

ROGERS



DIESEL AND AIRCRAFT CORPORATION

Diesel Engines, 5 to 2000 h.p. » Gasoline Engines » Generator Sets » Generators » Power Units » Switchboards » Pumping Units » Hydraulic Aircraft Equipment » Recoil Mechanisms Power Mowers * Power Brushes * Snow Removal Equipment Streamlined deluxe Railway Motor Trains » Diesel Locomotives



ally so by virtue of our newly assum responsibility for leading the work toward permanent peace, we curity, a democracy.

• Ruled Out, Left In—Russia has ruled out of conference bounds any discussion of the future of her border acquisition. Latvia, Estonia, Lithuania, and Besse bia. As a result of preliminary against ments concerning the invalidity of a war-made German-Russian frontier, a subject of Poland remains open—for a cussion between Russia and Poland. He land is a special, and difficult, problem.

its of

storic

Med

Rumo

eton's

uses

d-spai

g the

eons

oil T

per r

ady to ad Ira e Sta

plicies

eavell

the

In view of these exclusions, the arof specific discussion is restricted joint determinations of policy visuate the Balkans, Italy, France, Czechoś vakia, and Germany, and to general decussion of the broader relationships between all nations on such subjects armament, finance, raw material echanges, and international law.

• Political Clash-Points—Russia has a ready been invited and has entered in the political sphere-of-influence initial conserved by the Anglo-American blo It joined in concurrent recognition at the French Committee of National Literation and of the post-surrender Budglio government in Italy.

To the Mediterranean Politico-Military Commission, which will conduct all preliminary negotiations in its area. Russia has despatched a delegation a some thirty experts headed by Vice Commissar of Foreign Affairs Andrei! Vishinsky. To Cairo, where the Yugo slav and Greek exile governments head quarter, Russia has sent Alexander Bogomolov, former Soviet ambassador to the exile governments in London, with a staff of twenty.

• Which Governments?—It is in thee political spheres that the Moscow discussions may meet a first test. For one thing, Russia is frankly opposed to the reinstatement of prewar governments in countries which, under the duress of war, have created emergency local governments of a more liberal nature than their predecessors,

In the guerrilla areas of Yugoslavia and Greece, this is specifically the case. And Russia may take a line of its own on the political future of dissident groups in Italy and France—perhaps in Poland the Low Countries, and Czechoslovakia.

On the other hand, Britain and the United States, by the evidence of their support and recognition of these governments, have committed themselves at least temporarily to the restitution of authority to ealed leaders. On these differences there can be much dispute.

Least important product of the Moscow conference will be the proposals submitted to Washington and London for approval of the commanders-in-chief. More important will be the final meeting of these leaders, and the implementation of the decisions to which they commit their countries.

Dil From Arabia?

iculy assun

g the wo

curity,

is ia has n

iny discuss

acquisitio

and Bess

ninary agr

alidity of

frontier, f

open-ford

Poland, F

ilt, proble

ons, the an

licy vis-a-

Czechod

general d

subjects

naterial e

ssia has a

ntered in

ice initial

rican blo

gnition

tional Lit

render Ba

litico-Mil

I conduc

its arena

gation

by Vice

Andrei l

he Yugo

nts head

inder Bo

ssador to

lon, with

in these

cow dis-

For one

d to the

nents in

uress of

cal gov

ire than

goslavia

he case.

OWn on groups Poland,

ovakia.

nd the

f their

e govnselves

tion of

these

spute.

Mos

posals

ondon chief.

meet-

men-

they

1943

law.

Visit by Near East royalty ts off widespread rumors of storic petroleum deal; mission Mecca already planned.

Rumors flew like pigeons from Washeton's grimy old building which uses the State Dept. and the spickd-span Interior Bldg., where the Pepleum Reserves Corp. resides, follow-g the visit of princes from Saudi Ara-(BW-Oct.9'43,p48). Some of the eons alighted far out in the country. Oil Towns Buzzing-A Dallas news-per reported that PRC was getting dy to drill 20 wildcat wells in Iraq d Iran. A Tulsa newspaper said that State Dept., which recently gained w authority to set foreign economic olicies, had borrowed Col. John H. eavell from the Army and appointed m petroleum attaché, a new position, the Near East.

Other and varied reports were plentiil. Chiefly, they centered upon the liddle and Near East oil fields and the art which the United States may be lanning to assume in development and enaning to assume in development and enhaps in ownership, California Araian Standard Oil Co., jointly and qually owned by Standard Oil of Cali-

omia and Texas Corp., has the conssion on all of Saudi Arabia-350,000 mi., equal to Texas, Oklahoma, and little more.

Spadework Begun - Petroleum reirces of Saudi Arabia were recently lassified as "very great" by James Terry Duce, then director of the foreign divi-

sion of Petroleum Administration for War. Duce last week returned to his old position of chief foreign geologist for Texas Corp. He also is a vice-president of California Arabian.

Evidence that the company is well on its way toward exploiting its Saudi Arabia concession was clear nearly two months ago when it launched a big recruiting drive in San Francisco papers for engineers, foremen, oil well rig builders, accountants, mechanics, welders, boilermakers, machinists, and storekeepers (BW-Aug.28'43,p76).

 Capital Needed—The company needs much money, it is said, to build a refinery and do the field development necessary to provide war supplies. One report is that the company turned to Washington for money, and that the government decided it wanted a piece of the company. This would make the U. S. an oil business owner on foreign soil for the first time in history. California Arabian is said to be balking at such a partnership.

Confirmation of this report is yet to be heard. PRC announced that its mission to Mecca would soon be on its way. Harold Ickes, president of PRC, chatted about it in a one-page press re-lease, saying it was all tied in with military strategy. Principal specific news was that E. DeGolver, consultant to PRC, and William Embry Wrather, director of the U. S. Geological Survey, would be in the party and that other names would be announced later.

• The Lineup-PRC was chartered by the Reconstruction Finance Corp. June 30 and, as part of President Roosevelt's settlement of the Wallace-Jones fuss, was transferred to the Board of Economic Warfare, thence (by changes in



Two Puerto Rican scientists-part of a contingent of twelve-are seeking remedies for the malnutrition of their homeland in an American liquor distiller's laboratories. The food researchers are working at company expense in the Joseph E. Seagram & Sons plant at Louisville, Kv. Their chief project is learning how to produce high-protein synthetic "beef" from yeast (BW-Aug.14'43,p96) by Seagram's continuous aerobic process. Thus they may ease their national ill and use up Puerto Rico's surplus of blackstrap molasses, from which the yeast can be derived. The research program results from an island company's application for a license to use the distiller's method. Besides granting its free use, Seagram proposed the unique research program.

BY ADAPTING CUSTOMER'S EQUIPMENT already on the premises—thus cutting waste motion and expense—the 46-94 trusses on this storage shed for Shevlin-Hixon Lumber Co., Bend, Oregon, were economically erected in a few days. Building designed and supervised by Gerry Horskotte, Shevlin-Hixon Engineer.



TIME IS IMPORTANT-USE TIMBER

Buildings are erected quickly when you specify roof trusses by Timber Strucures. And coupled with construction speed are the advantages of economy, strength, permanence.

STRUCTURES

This organization specializes on design, fabrication, assembly and erection of trusses and other timber items. All types of industrial construction are served from small business buildings, bridges and factories to huge army depots, aviation housing.

We welcome the opportunity of submitting suggestions on trusses of timber or other structural materials in your projects. Illustrated book of Timber Structures jobs in various industries sent upon request. If west of the Mississippi, send to Portland 8, Oregon. If east of the Mississippi, send to 535 Fifth Ave., New York 17, N.Y.



Business Week • October 23, 1943



ERECTED IN FOUR 8-HOUR SHIFTS.
Mold loft for Henry I. Kaiser's famed Oregon Shipbuilding Corporation, Portland, Architect: Wolff & Phillips, Portland.



New York 17, N.Y.



Listen you! I'm putting this fist-full of money where it'll do the most good... for my boy and yours...and for millions like them out there somewhere trying to keep this a fit country to live and work in!

Sure, even during a war, a man and his wife, and his kids hanker for things they've always wanted...and yes, many of us could afford them ... but, until I hear my boy's footsteps on the front porch again, both my job and my pay are in the fight—because it's my fight!

Our one big chance right now, to help win this fight, is to play ball with the

Government in its efforts to hold down prices. That means: Pay Taxes ... all we're asked! We've got to pay for this war somehow—and that's the quickest, cheapest way.

Buy War Bonds! . . . all we can. These bonds keep our money safe, with interest, while it's in there pitching.

And we can cooperate with the Government in other ways too! Never bid up a price! . . . Never buy rationed goods without stamps! . . . Buy nothing that you don't really need

Folks, if we'll all stick to that simple loyalty code, we'll kill two birds with one stone—we'll lick Hitler and Hirohito—and we'll lick inflation.

Result: A saved and stabilized America.

FEDERATED HARDWARE MUTUALS

Berdinary Dealers Natural Fire Impressor Company, Hone Office, Sources Paint, Wiscomite

Mattail Implement and Handware Insertance Company, Hone Office, Outcomes, Alexandra

HARDWARE MUTUAL CASUALTY COMPANY

Hone Office, Steware Point, Wiscomite

-LICENSED IN EVERY STATE



Hardware Mutuals

Stevens Point, Wis. * Owatonna, Minn. * Offices Coast to Coast

Compensation, Automobile and other lines of

CASUALTY AND FIRE INSURANCE

name) to the present Office of Fore Economic Administration.

Ickes was made president and is to ing the personnel. Last week he ma E. Holley Poe, a natural gas man, ma ager of PRC.

Under its charter, PRC is authors to buy stock in foreign petroleum on panies. On Capitol Hill, there is so currosity as to whether this charter de laration is sufficient to confer su authority.

CANADA

Utilities Alarmed

Premier's threat to seize big power concern in rate row is causing uneasiness among the others; company will fight.

OTTAWA—Quebec public utility companies are asking, "Who's next following the threat of Provincial Primier Adelard Godbout to seize an nationalize the big, wealthy Montre Light, Heat & Power Consolidated.

• To Follow Through—Skeptical at fir of Godbout's announced intention political and business leaders now as swinging to the view that he will follow through with submission of a bill to the provincial legislature authorizing seizur of the \$209,000,000 company, largest in Canada. With a provincial election coming up, Godbout may call the legislature this fall, months ahead of time and try to ride the bill through.

In full-page advertisements in Montreal papers, M.L.H.&P. is defending its position, seeking public support, and challenging the premier's move.

• Rate Reduction Sought—Early doub about Godbout's intentions stemme from his failure to implement a bit passed in 1941 authorizing seizure of Beauharnois Light, Heat & Power Co. now controlled by M.L.H.&P. Reduction in service rates to consumers was given as the main reason behind the 1941 action and is again cited as the motive for the new proposal.

motive for the new proposal.

Actually, close observers of Quebe political trends believe Godbout's hand is being forced by increasing agitation among French-Canadian nationalist groups against the domination of big business in the province by English speaking elements.

• Another Attack—In harmony with Godbout's move is a demand by Quebec's Public Service Board, after a three-year survey, that M.L.H.&P. show cause why its rates should not be based on the investment cost of the company's assets rather than on the value

B

"7½ million men will be employed in immediate postwar construction -if American business makes its plans <u>now</u>!"

Statement by ERIC A. JOHNSTON
President, Chamber of Commerce of the United States

"HOW can private industry open up fields for employment during the difficult transition state after the war?

"Well, there's one industry which won't have a reconversion time lag to overcome—if we all plan now! That's the construction industry. In war and peace, it uses the same type of machines, materials and manpower. All the construction industry will need to go to work immediately are the contracts for the job. Just as there will be a great accumulated demand for consumer goods after the war, so will there be a huge backlog of requirements for rebuilding and expansion of plants, for new housing and public works which have been deferred.

"Employment in new construction, exclusive of maintenance and repair work, will reach a peak after the war of three million men—on the site. In addition, another four-and-one-half million will be employed off the site, in the production and transportation of materials.

"That's seven-and-a-half million good jobs immediately after the war for carpenters, plumbers, bricklayers, architects, electricians, engineers and a host of others—enough jobs to take up the slack in the transition period and prevent mass unemployment.

"But those men won't be put to work rebuilding America for a long time after the war unless we plan today. 'We' means individual business men, retailers, wholesalers, manufacturers—all of us. And it means city, county and state governments. Private building will account for about two-thirds of postwar construction—it's the American business man's responsibility to plan with his architect and engineer right now!"



Prepare Plans Now!

What are your postwar building requirements? How big—bow difficult—bow accurately planned is the job? To get it done right—on time—and at the lowest possible cost, you must plan with your architect and engineer during the months ahead. Call them now!

TRUSCON STEEL COMPANY, Youngstown, Ohio

SUBSIDIARY OF REPUBLIC STEEL CORPORATION

and is mand is authorized authorized is son charter do onfer mand is mand in the mand is son charter do onfer mand is mand in the mand

ned to seize trate row mong the

lic utili o's next incial Pr

seize an Montre dated. cal at fin

intention now are will follow bill to the

ng seizu

largest i election the legiof time in Mont

defendin port, an

rly doub

stemme

nt a bi

eizure (

wer Co.

Reduc

ners was

d as the

Quebet

t's hand

agitation

tionalis

of big

English

by Que

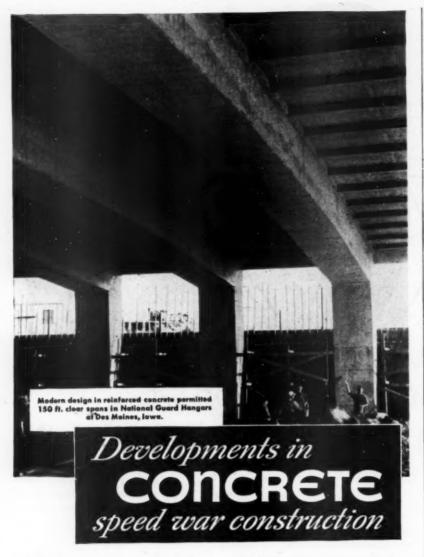
after a

P. show be based

e valua

3, 1943

ve.



In laboratory and field, engineers have developed improved design and construction methods which enable cement and concrete to render greater service in war construction. Just as soon as these new methods are proved out in practice, full information is made available free to designers and builders.

IN WAR PLANT CONSTRUCTION

Advanced concrete design is saving time and critical materials in building firesafe, low annual cost industrial plants and military structures.

IN AIRPORT PAVING

Scientific design methods developed for concrete runways are facilitating the construction of airports which give maximum, long life service at low annual cost.

IN COLD WEATHER CONSTRUCTION

To expedite concrete war construction which must be done in winter, latest information on cold weather concreting has been compiled. This information is furnished free to engineers and contractors.

IN OPERATION OF RAILROADS

Working with railroad engineers, methods of forcing portland cement grout into soft spots under mainline tracks have been developed. The grout hardens—stabilizes the roadbed, thus speeding up traffic and saving maintenance labor.

Our concrete technicians are available to assist your engineers with concrete design and construction problems.

BUY MORE WAR BONDS

PORTLAND CEMENT ASSOCIATION, Dept. A10d-12, 33 W. Grand Ave., Chicago 10, III.

A national organization to improve and extend the uses of concrete . . . through scientific research and engineering field work

tion at which these investments are carried by the company.

What is proposed is a slash of about 40% in the value of assets involved in the operation of electric facilities in produce a cut of around 25% in electric service rates.

• Board's Proposal—Subject to object to strong from the company, the board proposes to reduce the valuation of asset used in providing electric services from \$114,000,000 to \$70,000,000. After do ductions for depreciation, it would allow a net value as the basis of earning of \$41,000,000 instead of the company's computation of \$85,000,000. Property were taken over, the board's valuation would be used as a guide for compensation.

The company insists that its rate for electricity are lower than those of any similar utility in North Americand that they would be still lower if the company were exempted from taxation as is the publicly owned hydroelectric system of Ontario.

• Substantial Empire—M.L.H.&P., in addition to having a monopoly of power electric light, and gas services in Montreal and surrounding communities, in part of a substantial power empire. It owns Quebec-New England Hydro Electric Corp. and Cedar Rapids Mfg, & Power Co., the latter with a 235,000-hp plant on the St. Lawrence.

It has outright control of Beauhar nois, large development which form part of the projected St. Lawrence sea way and power scheme, and Montrea Island Power Co. In addition, it is par owner of Shawinigan Water & Power Co., with which it jointly owns United Securities Ltd., which in turn control Montreal Tramways Co. and Canadian L.H.&P. Co.

• Stock Tumbled—Godbout's threat sent Montreal Power stock tumbling of the Montreal stock exchange. Before the announcement it stood at 25½; it closed a week later at 20½.

ma

WHEAT POOL SUED

Saskatchewan Wheat Pool, cooperative agency of wheat growers in the middle-prairie province, would be nicked for close to \$40,000,000 if a court action pending against it for liquidation of debts to farmers should become the basis of a general demand.

In the period from 1924–29, the pool secured financial aid from farmer members by deducting 2¢ a bushel from its returns to them for a fund to provide elevator facilities, and by withholding an additional 1% of the proceeds from the sale of wheat to establish a commercial reserve fund. The amount deducted runs to around \$19,000,000, and interest just about doubles it.

A test suit has been brought by a pool member for return of amounts de ducted from his accounts.

NO "WAR BABIES," THESE!

*To THE THOUSANDS of men, in the armed forces, who have experienced the thrill of driving Marmon-Herrington All-Wheel-Drive trucks for the first time, the knowledge that the same vehicles were in widespread use, before the war, may come as a distinct surprise.

nts are car h of abou nvolved i cilities e in elec to obje board pu of asset vices from After d would a of earning the cor).000. Pn ere taker would b tion. its rate those (Ameri wer if th n taxatio droelectri 1.&P., of power in Mon mities. mpire. vdro El Mfg.

Beauha ch form rence sea Montrea

it is par

is Unite

control

Canadia

bling or

Before 251;

coopera-

e nicked

rt action

ation o

ome the

the pool

er men from it

provide lding at rom the

nmercial ted run rest just

nt by a

3, 1943

threa

Now, when almost every truck seen in army convoys drives through all wheels, it is perfectly natural to assume, though wrongly, that All-Wheel-Drive is something new—developed exclusively for military service.

Multiple drive trucks were used, even as long ago as the first world war. Marmon-Herrington saw the many advantages in the multiple drive principle of operation and built a highly successful



business with improved designs over a period of ten years before the present war began. Users in road construction and road maintenance, in the oil fields, logging camps and other extra-difficult services, found nothing to equal them. Neither desert sand, marsh mud, winter snow or mountain steeps could stop them. These were the "Heavy-Duty" Marmon-Herringtons, with capacities up to 25 tons. And, starting in 1935, our company introduced a series of lighter models, consisting of conversions of all standard Ford trucks, commercial cars and passenger cars, to All-Wheel-Drive. These have been called the "grandparents" of the modern jeep.

All our energies and facilities are now devoted to the manufacture of trucks, combat tanks and other vehicles for war. But we, as you, are looking forward to the day of Peace—when Marmon-Herringtons will be available to all who need and want them. Back the attack with the purchase of extra war bonds, and help speed the coming of that day.

☆ Buy an Extra War Bond - Back the Attack!

MARMON-HERRINGTON

INDIANAPOLIS 7, INDIANA

Business Week . October, 23, 1943

WAR BUSINESS CHECKLIST

A digest of new federal rules and regulations affecting priorities and allocations, price control, and transportation.

Fats and Oils

New quotas for fats and oils will increase production of civilian supplies of soaps, paints, varnishes, lacquers, lmoleums, oilcloths, felt-base floor coverings, coated fabrics, and most protective coatings. Quotas have been raised from 80% of use in the base period (1940–41) to 90% for household soaps, to 110% for industrial soaps, and to 150% for abrasive or mechanics soaps. For paints, varnishes, and lacquers, the fats and oils allotment has been increased from 50% to 60% of base-period use. Restrictions (for manufacturers in business before July 1, 1943) do not apply to amounts under 10,000 lb. per quarter; formerly a 6,000-lb. limit operated. Laundry soaps for companies holding laundering contracts with the armed forces are exempt; soaps supplied to public institutions are not. (Food Distribution Order 42, as amended.)

Fiber Shipping Containers

Because of the container shortage (BW-Oct.16'43,p14), the manufacture and use of new fiber shipping containers, the supply of which is about 15% below demand, have been brought under strict control. A new WPB order covers boxes, crates, cases, baskets, and hampers made wholly or in part of corrugated or solid fiber (.060 or heavier); also interior fittings and sheets or rolls of the same materials, used in packaging. The manufacture of retail gift boxes, bottle and can carryouts, and other unessential types is prohibited. Quarterly weighted quotas of such containers used for packing certain products are 65% and 80% of use in the corresponding quarter of 1942. For retail deliveries, use is limited to 80% of quota for mail orders and 65% for other methods of delivery. (Order L-317.)

Repair Parts

Manufacturers of construction equipment have been urged to increase production of repair and spare parts. Most urgently needed are parts for power shovels and cranes, since 95% of new cranes and shovels are required for military use.

Typewriters

War contractors who were required to turn in rented typewriters manufactured since 1935 may now get these back, or an equal number of similar machines, on a rental basis. This ruling is the result of WPB's recent order allowing limited manufacture of typewriters, thus releasing some which were formerly needed for the armed forces. (Amendment 6, Ration Order 4A.)

Sugar

November-December sugar allowances have been increased from 4 lb. to 5 lb. per 100 persons for institutional users who normally do their own baking. This ruling, announced by the food rationing division of OPA, will affect commercial eating places such as restaurants and hotels and also institutions of involuntary confinement such as prisons and asylums.

Petroleum Products

When sellers of petroleum products at retail take as their ceiling the price of their most closely competitive seller of, the same class, they may now take their competitor's present price instead of his March, 1942, price. (Amendment 37. Regulation 137.)

Dairy Feed Payments

Rates of subisidy payments have been announced for October, November, and December, to offset increases in dairy feed costs since September, 1942, to farmers who deliver whole milk and butterfat (BW—Oct.9'43,p70). Payments range from 30¢ a cwt. for whole milk deliveries and 4¢ a lb. for butterfat in Minnesota, Iowa, and Wisconsin, to 50¢ a cwt. for milk and 6¢ a lb. for butterfat in New Jersey, Massachusetts, Connecticut, Rhode Island, and Southern California, The maximum rates apply to drought counties in Arkansas and neighboring states. Payments will also be made to compensate for September increases in hay prices in the Los Angeles and Memphis To secure payments under the program, the producer must submit to his county Agricultural Adjustment Administra-tion committee satisfactory evidence of quantity of milk or butterfat sold.

Chemicals

Five additional chemicals—oxidized petrolatum, Vinsol resins, methyl abietate (abalyn), hydrogenated methyl abietate (hercolyn), and cellulose sponges—will be placed under allocation on Nov. 1. Orders for the following amounts are exempt: less than 25 lb. of oxidized petrolatum (used as a rust preventive); less than 500 lb. of Vinsol resin (used in sand molds, cement, paper, and other products); less than 450 lb. of methyl abietate and hydrogenated methyl abietate (used as plasticizers in copper bottom paint, rifle and ammunition lacquers); and less than 1,000 cu. in. of cellulose sponge. (Allocation Order M-340, as amended.)

Coated and Combined Fabrics

Specific formulas for determining maximum prices at all stages of manufacture and wholesaling of coated and combined fabrics, as well as the processing of them, have been provided by a new simplifying regulation that removes the fabrics and services from the control of GMPR. Prices will average about the same as those previously prevailing. For products and services sold to the United States and to foreign governments, or for use in the manufacture of commodi-



e same

ough e free

Work

As p

00 pai

ns on

ethod

rers (

t are

lothes

nrvev

ecreas

lation

Ship

ials fo

ay ol

ler of

nvent

urcha

ce an

rede

Oth

WPB

f vis

hatch

of les

Bu

nsatin

Auto-Lite Battery Corp. Long Island City, N. Y Dayton Tool & Engineering Co Dayton, Ohio Foote Co., Inc Nunda, N. Y. General Motors Corp. Warren, Ohio McElroy Mfg. Co. Boston, Mass. Mount Hope Finishing Co. North Dighton, Mass. Parkwood Corp. Wakefield, Mass. Rawlings Mfg Co. St. Loui., Mo. Reed & Prince Mfg. Co Worcester, Mass. Savage Tool Co. Savage, Minn. St. Joseph Lead Co. of Pennsylvania, Josephtown, Pa. William E. Wright & Sons, Co. West Warren, Mass.

(Names of winners of the Army-Naty and Maritime Commission awards for excellence in production announced prior to this new list will be found in previous usenes of Business Week.)

ties covered by MPR 403, the base period April, 1943; for all other fabrics and serva covered, March, 1942, is the base. (Regulation 478.)

Beef

Federally inspected slaughterers are a quired to set aside for the armed forces a war service 45% of utility-grade steer as heifer beef that comes within the weat range and other specifications set by the Army for this grade. Of the amount saide, 80% is to be prepared as bonde meat so as to conserve cold storage spat and shipping costs.

Lumber

Increases of tonghly 15% have be granted in ceiling prices of northern hat wood and softwood lumber to compens producers for higher wage costs resultation the National War Labor Board's approval of higher wages for lumber worke in July. Increases apply to all standar grades of hardwood and softwood specie except timbers, and include additions a certain mill-working charges. These prices, which replace the temporary increase of 10% granted in August, may be passe on to the consumer. (2nd Revised Regulation 222)

Pulpwood

For the first time, pulpwood produced a Indiana, Illinois, and Missouri has bed given dollar-and-cents ceilings, at the high t prices prevailing during July, 1943. By same ruling, dollar-and-cents ceilings renee old "freeze" ceilings in Pennsylvania,
faryland, West Virginia, Ohio, and Kencky. General prices in all eight states will
at the levels prevailing in recent months,
ough unduly low and high prices under
the freeze action are ironed out by the unirun ceilings.

Work Clothing

VY

Co

vania,

ise period

and servi

e. (Regul

ers are r

forces and steer and the weight by the mount steer and the steer and t

is bonele

rage spa

nave bee

hern har ompensi

oard's a

er worke standar

d specie

litions

ese prio

be pass

d Regul

duced it has been he high

3, 194

As part of a program to obtain 10,000,000 pairs of boys' bib overalls, needed by ors on farms, an optional maximum pricing nethod has been provided for manufactures of these garments. Prices so arrived are above the prevailing level, but comensating decreases in prices of other work lothes will be effected if a forthcoming uvey of the industry indicates that such lecreases are possible. (Amendment 4, Regulation 208.)

Ship Maintenance and Repairs

To cope with the work involved in keeping every essential ship in operation (BW—Dct.2'45,p30), a simplified procedure has seen worked out to permit operators of all resels except pleasure craft to secure materials for maintenance and repairs. Operators may obtain these materials from any chandler or marine distributor who has set up an inventory on WPB 646, by certifying on purchase orders that the material is to server an essential craft. No priority rating is needed. Controlled material orders, as well as preference rated orders, may be obtained in this form.

Other Priority Actions

The effective date of Schedule VI of WPB order L-216, relating to manufacture of vises has been postponed until Jan 1, 1944. . . . Orders for pea and chestnut mathracite for heating poultry brooders and latcheries have been given preference, Solid Fuels Administrator Harold L. Ickes has announced. . . Luggage with a factory price of less than \$1.50 (excluding taxes) has been removed from the production quota restrictions of WPB's Order L-284, by an amendment to that order.

Other Price Actions

A 6% temporary increase in ceiling prices or certain weights and sizes of men's and boys' knitted union suits and other knitted underwear, sold by jobber mills, has been authorized by OPA Amendment 4, Regulation 221, to relieve a severe shortage in these garments. . . . Manufacturers of house-hold brooms made wholly or partly of roomcorn have been allowed an increase in their maximum prices of 3¢ a lb. of the total weight of the broom under Order 777 Regulation 188. . . . Assemblers of watches containing imported movements may secure reimbursements for increases over specified actual costs of the movements, and are not mited, as heretofore, to increases over costs of movements that were delivered during or after March, 1942; but foreign invoice prices before Aug. 1, 1941, may not be used as a basis for costs, nor may increases in foreign invoice prices after Apr. 30, 1943, be added to maximum prices. (Revised Order 1, Maxmum Import Price Regulation.)



Among the important outgrowths of the War has been the solution of industrial "green hands" problems through use of modern instrumentation. Foxboro Measurement and Control Instruments have so simplified countless exacting production steps that new-trained workers can produce accurately, on schedule.

duce accurately, on schedule.

Where "old hands" still are on the job, improvements in production efficiency are even more striking! With guesswork and tedious detail work removed by instruments, all the workers' skill and experience can be applied toward better, faster output!

Foxboro Measurement and Control Instruments simplify any operation demanding critical temperature, pressure or flow rate. They automatically supply exact guidance... furnish graphic records wherever needed...often wholly replace manual control.

Plan now to boost your plant efficiency higher than ever before, by equipping the exacting production steps with Foxboro Instrumentation. The Foxboro Company, 120 Neponset Avenue, Foxboro, Mass., U. S. A. Branches in principal cities of U. S. and Canada.

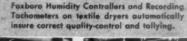


"For outstanding production". The Foxboro Company has been awarded the Army-Navy "E" Pennant.



MEASUREMENT AND CONTROL SYSTEMS

Exactly uniform heat-freating becomes practically routine, with Foxboro Potentiameter Controllers on pit-type furnaces.







PRODUCTION

Indium Scores

Soft, silvery metal adds many war jobs in such fields as alloying and plating; it's dear, but a little goes a long way.

Glimpses of a new and possibly broad field for indium—a soft, silvery metallic element used in a growing variety of alloys—can be seen between the lines of a statement authorized after severe editing by the military censorship—the coating of ferrous metals for resistance against corrosion and abrasion:

"The latest development to be announced by the Indium Corp. comes as a result of two years experimental work in conjunction with the Propeller Laboratory at Wright Field . . . an alloy coating for the new hollow steel propeller blades. This indium alloy finish is on a large number of blades that have been finished for this purpose. The suitability of the finish for service tests has been tested. Water spray tests to investigate abrasion-resistance and salt spray tests to determine corrosion-resistance after being subjected to abrasion were completed."

• Process Still Secret—Although such an indium-alloy-finished prop blade is on display this week at the National Metal Congress in Chicago, the censored statement contains all that can now be said in a journal of national circulation. How the coating is applied and what the other metals of the alloy are must remain military secrets for the present.

Significance of the statement lies in the fact that the metal (which gets its name from its characteristic indigo blue line in the spectrum) has until now been pretty well restricted to adding new qualities to nonferrous metals—silver, gold, copper, nickel, lead, tin, zinc.

• Expanding Field—First commercial use of indium was for dental alloys; indium-gold makes inlays with greater strength, ductility, and immunity to discoloration.

Second commercial use was found in indium-gold hinge pins of spectacle frames which proved immune to "freezing" caused by perspiration.

Biggest wartime use to date is in the main bearings of engines for airplanes, tanks, jeeps, etc. Steel "backs" are electroplated with silver, followed by successive electrocoatings of lead and indium, the latter being deposited to a thickness corresponding to 4.5% of the weight of the lead coating.

• Metals Fused-Since indium melts at the low temperature of 311F, well below the 621F melting point of lead, a slow, two-hour heat treatment of the bearing at a temperature somewhat above 311F causes the indium to diffuse into the lead, forming an alloy of the two metals that is harder, more resistant to abrasion and corrosion than either alone, and providing a bearing surface of unusually high quality.

Although pure indium is softer than lead and can be chewed without apparent toxic effects like so much gum, just 1% of it added to lead increases the tensile strength of the latter from approximately 1,600 psi. to between 2,400 psi. and 3,000 psi.

• Alloying Virtues—Added to either gold or copper, indium lowers the melting point, increases hardness and strength; copper takes on almost the tarnish-resistance of gold.

Added to silver solders and other brazing alloys in quantities as minute as 1% to 2%, they take on new "wetting" properties, particularly when used on steel and increased adhesion.

on steel, and increased adhesion.

Electroplated in a thin "flash" coating over nickel-plated steel and other metals, indium closes pinholes, prevents corrosion from starting at such points.

corrosion from starting at such points.

• Last Peacetime Job—About the time that the automotive industry was being converted 100% to war production, Studebaker finished the bright work of a few hundred of its final 1942 cars with

silverplating, tarnish-proofed with dium plating (BW-Mar.28 +2.p60)

artles

Prod

lt us

934,

nd ap

uction

ecrets

ave b

ear fo

ent, Villia

eeds

n ste

Va

Cong

new strate

Inter

of no Pa

Fact is the current price of \$10 a to ounce for the versatile metal (it or about 30 times that 20 years ago the it first went into dental inlays) seems be not much of a hurdle to its use. I little goes a long way.

It takes only 0.00016 troy ounce electroplated indium to protect a squarench of silver against tarnishing, as only about \$1.50 worth for an airtie engine's main bearing.

• Looking Ahead—Postwar civilian us promise to cover a wide range: plan for metal lipstick holders and othe cosmetic containers, glass coloring electrical contacts, low-melting allow automotive bearings, tarnishproof ligh reflectors, jewelry, whatever.

reflectors, jewelry, whatever.

Indium is even being rolled into the toil for secret military purposes though to have postwar civilian applications a electrical equipment.

Of prime interest to jewelry and all verware-manufacturers is a new allow a silver and indium which has so little a the latter in its composition that it can be labeled "sterling silver, 925/1.00 fine"; an identification bracelet made a it has shown no tendency to tarnish a the sweaty wrist of a soldier in the Southwest Pacific.

Three Producers—Production of comental indium, a byproduct of smelting certain zinc ores, is in the hands of three companies: Indium Corp. of America, New York (jointly owned by Oneida, Ltd., and Anaconda Copper, American Smelting & Refining Co.



MASS AND MIGHT

Being readied at Schenectady, N. Y., for shipment to the Geneva Steel Works, Utah, is a 7,000-hp. motor described by its maker, General Electric, as the world's most powerful—

capable of lifting a naval destroyer to a height of 15 floors in a single minute. At the \$150,000,000 Geneva plant—built for Columbia Steel Co, a U. S. Steel subsidiary—the massive coupler (above) will be hooked to the reversing rougher of a plate mill. ew York; and National Zinc Co., artlesville, Okla. Production of indium trichloride, the

It used in electroplating, is in the ands of Indium Corp., which controls e plating patent situation and is reonsible, since its incorporation in 934, for the bulk of indium research

nd application.

fed with S'42,p60),

of \$10 ab

ectal (it on ars ago who

avs) seems

o its use.

ov ounce

teet a squa ishing, a

an aircra

civilian us nge: platm

and other

ses though lications i

lry and a

ew allow

so little o that it car

925/1.00 et made o tarnish o

er in the

on of clo

f smelting

hands of

owned by Copper) ing Co.

Corp.

coloring ting allow proof ligh d into this

No Scarcity Foreseen-Figures on pro-uction of metal and salts are military crets. The fact, however, that they ave been more than doubling every ear for the last five years lends credence o the belief of Indium Corp.'s presient, founder, and chief researcher, Dr. William S. Murray, that all wartime eeds will be covered—even to coatings a steel military props.

Vanishing Ink

Argument over process to le-ink paper enters the halls of Congress as Cromwell asserts WPB gave him runaround.

Much of the thinking in the paper and pulp industry this week runs along the lines of thoughtful wishing that the new process for de-inking paper demonstrated by James H. R. Cromwell last week before the House Committee on Interstate & Foreign Commerce might be used to de-ink the uncountable tons
of newsprint used to report the event.
• Paper Men's Viewpoints—"Not," says
one paper mill operator who has been
experimenting with it, "that Jimmie's
Chemwood process won't de-ink paper,
because it will. My gripe is that the because it will. My gripe is that the first lot of chemicals he sent us did a superior job; the last lot wasn't even as good as the caustic soda we have always used previously."

"Crux of the matter," says an experi-enced paper technologist, "is that a new deinking process gets a big play in the papers every year or so and then is forotten until the next one comes along." The Beginnings-Roughly the facts behind the demonstration are these: Francis H. Snyder, the inventor of the process, and Cromwell formed the firm of Cromwell, Snyder & Co. last year, operated a pilot plant in Washington, retained Arno W. Nickerson, New York chemical engineer, as consultant, besought paper and pulp mills to adopt the process and the chemicals that go with it, got a few takers on an experi-mental basis.

e min

eneva

I Co.

assive

to the

1943

This year, they went after governmental support for their project through Arthur Wakeman, director of WPB's pulp and paper division, but, said Cromwell to the House committee, "Mr. Wakeman has always taken the position that his duty was to ration the supply of pulp and not to increase it. Since no



Kerrick Kleaners are saving up to 80% of the man hours required to clean trucks, airplanes, machinery, factories and to do scores of other necessary military and production cleaning jobs.

Years of successful experience in solving automotive and industrial cleaning problems prepared Kerrick Kleaners for their vital wartime assignment. Now

they speed production of war materials, save precious hours at front line maintenance bases, cut costs of removing dirt and stubborn grease on everything from small parts to entire factories.

Heat, water detergent and friction are scientifically combined in Kerrick Kleaners . . . better cleaning, faster and cheaper, is the result.

Stationary and portable types, and a wide range of special cleaning compounds, are setting today's standards for efficient steam cleaning of any type surface.

Other Clayton products serving the Armed Forces include: Flash Type Steam Generators-Hydraulic Dynamometers - Hydraulic Liquid Control Valves-Boring Bar Holders and Boring Bars.







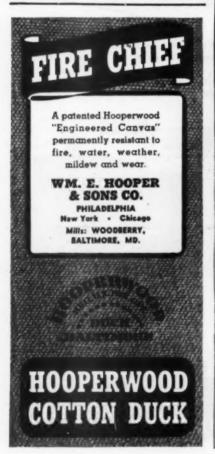
no dark-room—your office boy can operate it.

OUR NEW BOOK tells you the Hunter Electro-Copyist wi

HUNTER ELECTRO-COPYIST, INC

107 E. Fnyette St.

focussing,



action could be taken by any federal loan agency without a letter of recommendation from the pulp and paper division, and since its director held that the writing of such a letter was not within his jurisdiction, the situation became just another Washington runa-round."

• Just for the Emergency-Before the committee, Cromwell, a former min-ister to Canada, was frank to admit doubt that "de-inking mills would find it profitable to de-ink old newspapers on a commercial basis" under normal, nonwar conditions, but submitted that utilization of his company's process would conserve a large percentage of the 700,000 tons of Victory box packaging in which the Army sends its supplies to the fighting fronts, recover both wax and pulp from an annual production of 350,000 tons of heavily waxed stocks, recover a considerable percentage of the annual production of 250,000 tons of wet-strength paper for maps, charts, and other technical military uses, and re-claim every year pulp equivalent to a belt of trees a mile wide stretching from New York to Washington.

Over 300,000 tons of annual de-inking capacity, long since installed in this country, are evidence of the economic soundness of de-inking, but its grist is old magazines and books, carefully selected to keep the proportion of groundwood stock down to a couple of

· Caustic Process-Operators of de-inking mills point out that printing ink can be cooked out of papers made sulphite or soda pulp successfully at the commonly used caustic soda so tion; groundwood pulp like that used newsprint and some containers become vellow and brittle under the same tre ment.

General feeling in the pulp and pap industry is that the new process sho not receive government subsidies, din or indirect, but take its chances in hands of private enterprise.

Sand Stretcher

Economy is achieved steel foundry through resi binder used in molds that re duces sand requirement 75%.

When the Army turned to steel cas ings for the armor of tanks and other combat vehicles last year, most ste foundries worked on a prewar rule of thumb calling for half a ton of ne silica sand to make a ton of castings. · Saves Three-Fourths-This fall a large

steel foundry is turning out armor ste castings at the rate of 5,000 tons month with only 600 tons of new sand less than a quarter of the 2,500 ton it might have been expected to use.

Back of the saving (which is impo tant in view of overburdened facilities for extracting, grading, and transporting sand) is a pine wood chemical, called



SIDESTEPPING DANGER

Racing against time to beat winter freezes, engineers are rushing work on a big project that involves changing the Delaware River's course and moving the Erie Railroad tracks 155 ft. Its purpose is to sidestep uncontrollable landslides that have dropped sand and stone to the tracks near Lordville. N. Y., for two generations. By cutting 187,000 cu.vd. of earth from one river bank and filling it in on the other side, Senior & Palmer engineers are creating a new grade. The roadbed's sweeping curve will thus be shortened and the white patch of sand on the hillside can then slide down harmlessly. About 3,000 ft. of tracks will be relaid by Dec. 1.



lusiness Week . October 23, 1943

3, 1943

r



that our jeeps and tanks and guns may roll where the going is toughest—the Oil Industry is today performing miracles of production.

But without valves, not a pint of gasoline nor an ounce of synthetic rubber could be produced.

In this, however, as in every other branch of industry through 97 years, Powell was ready with valves of correct design and material to meet every demand imposed by new processes and increasingly exacting service conditions. That's why today Powell Valves are truly serving as Links in the Chain of Victory.

Powell Valves

THE WM. POWELL COMPANY

CINCINNATI, OHIO



Truline Binder, developed in 1935 h only gradually introduced to found

And back of it are years of research its manufacturer, Hercules Powder of Wilmington, Del., into uses for it dark, insoluble fraction of resin what is left after the lighter, more solutifications have been extracted.

• Concrete Stabilizer—As Vinsol residence the dark fraction goes into concrete a becomes a stabilizer for highways the minimizes surface checking and spalls after frosty weather. As an extender is some of the more expensive synthetic plastics, it saves scarce chemicals a reduces all-over molding costs.

In a finely powdered form, as Trula Binder, the dark fraction is mixed with either new sand or (preferably) sand a claimed after casting, binds the sangrains together to form cores for moly in the manner of linseed oil, anoth scarce item.

• Bakes Faster—Hercules researchers at technicians believe their binder bake faster than others, produces accume cores "strong enough to resist the molten metal when it is poured into the sand," yet combustible enough to he "destroyed by heat after casting to pe mit easy removal of the sand from the core cavity" and to permit reclamation and re-use of the sand.

They estimate that the foundry go its monthly 1,900-ton saving of no sand through the use of only 150 tons 1200 tons of their binder.

Penicillin Stride

Successful crystallization of drug's sodium salt leads to hope of its early synthesis, bu WPB isn't relaxing.

Substitution of a synthetic chemica method for the present slow and cumbersome natural process of producing penicillin took a major step forward when E. R. Squibb & Sons announce that it had successfully crystallized the pure sodium salt of the new worded drug. Significance of this is that production of a pure salt was necessary before chemists could begin the "degradation studies" which generally lead to the disclosure of the structural chemical formula of new materials.

• Others Seek Same Result—There have been reports in the pharmaceutical industry for several months that other companies working on penicillin, including Merck and Charles Pfizer, also had produced some crystalline material, but Squibb was the first to make a public announcement. In fact, the Squibb announcement formed a major part of the company's annual financial report for the fiscal year ended June 30.

Notwithstanding this new develop



YOUR PERSONNEL PROBLEMS WILL BE SIMPLIFIED BY AN

Appropriate Employee Pension Plan

Improved management-employee relations are a natural consequence of a correctly designed employee pension plan. These are the basic benefits your firm could obtain from such a plan soundly inanced through investment in insurance company annuity contracts or in securities:

g of ne

le Ilization eads te

esis, bu

chemica

and cum

producin

forward

nounced lized the

ssary be

degrada

chemica

ere have

it oth

Squibb

part of

3, 1943

Reduces labor turnover. By its nature, a pension plan rewards long, faithful service.

2. Attracts and holds high type employees. The employee is afforded benefits supplemental to

Social Security payments which are based only on earnings up to \$3000.

3. Eases Wage Problems. A pension plan provides positive financial value to the employee, yet is in line with governmental anti-inflation trends.

A 92-page summary of the fundamentals of formulating and financing pension plans is now available. There is no obligation entailed in writing for this study, so send for your copy now and have the facts available when you need them.

THE CHASE NATIONAL BANK

OF THE CITY OF NEW YORK

Pension Trust Division

11 BROAD STREET

Telephone HAnover 2-9800

NEW YORK 15



This hand operated 'Budgit' Chain Block is as modern as to-day. In creating it, past designs were forgotten. The light weight comes from the modern design and the liberal use of alloy steels. Equipped throughout with antifriction bearings, with it loads may be lifted easier and faster.

Perfect lubrication is always assured, for all working parts are totally enclosed and operate in grease keeping out dust and dirt. The roller-type load chain does not stretch, stiffen nor bind.

It hangs in perfect balance with or without load. The automatic brake controls the load under all conditions. Loads cannot descend unless the operator pulls on the operating chain in the "down" direction.

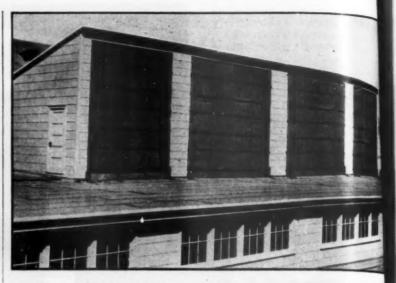
Size for size, it weighs much less than other standard spurgeared blocks. For example, the smallest weighs only 48 lbs. The two-ton 'Budgit' Chain Block weighs 81 lbs.

'Budgit' Chain Blocks are built to lift up to 1/4, 1/2, 1 and 2 tons and prices start at \$59.50 list. Send for Bulletin No. 357 containing complete information.



MANNING, MAXWELL & MOORE, INC. MUSKEGON, MICHIGAN

Builders of 'Shaw-Boa' Crones, 'Budgit' and 'Load Lifter' Holats and other lifting specialties. Makers of Ashcroft Gauges, Hancock Valves, Consolidated Safety and Relief Valves and 'American' Industriel Instruments.



INDIAN WATER MAGIC

For centuries, desert Indians have known the trick of keeping their drinking water cool in large porous earthen jars, called ollas (right). And now Consolidated Vultee, unable to get refrigeration equipment, has borrowed the trick to cool the Tucson (Ariz.) plant. Ollas are chilled when desert winds evaporate the water that seeps through to the outside of the jar. The big cooler (above) consists of excelsior pads moistened by water with huge blowers sucking in a million cubic feet of air a minute. And even when it's 105 in the shade outside, hangars stay at an even 85.

ment, government agencies pushing the production of penicillin are still building up natural process capacity to assure the vast immediate military requirements for the drug. If a shorter synthetic method can be worked out in the interim, so much the better.

• WPB Authorities—Responsibility for boosting penicillin production by whatever means now rests with Fred J. Stock, head of the drug section in WPB's chemical division. Working with him is Dr. A. L. Elder, Syracuse University chemist, who has been acting as a WPB chemical division consultant for several years. Dr. Elder is completing a tour of all plants producing penicillin and will soon investigate all new companies who want to enter the field.

The ticklish question of disseminating secret production information among the various companies in the field is a problem for Dr. Elder to weigh. At a recent meeting of the newly formed WPB penicillin industry advisory committee, composed of representatives of the 17 companies, it was de-



cided that each company would give of its secret information to Dr. Elder confidence.

• Proposed System—After the Wichemical expert completes his inspition of production facilities, he will determine what secret production formation he believes should be pass from one company to another. The he will seek the permission of the company possessing the "secret" to pass along.

As in the case of anything new and dramatic, there has been a rush on the part of a lot of companies—both instand outside the drug and medicin chemical field—to get into penicilla. Since it takes large amounts of strateg metals, such as stainless steel, to go improduction, WPB controls all entries.

• Everyone Considered—Broadly speading, WPB men feel that the concern which are either producing the drug of have approved projects for its production ultimately will be able to meet a requirements. However, WPB is taking

no chances; all companies wishing to Business Week • October 23, 194

DOES ONE PART THAT'S "A.W.O.L." SLOW UP YOUR PRODUCTION?



RIGHT now, when peak production is most vital, is your output being curbed by missing parts? Do failures to maintain proper precision and quality standards in difficult parts cause rejections that slow up your assembly lines?

Contact KAYDON

For present or postwar product improvement ... for more production at lower costs, now and in the future... Kaydon precision facilities and experience in producing difficult parts may be the answer to your problems. Here, specially designed metalworking machinery for large or small precision parts ... modern heat-treating and flame-hardening equipment ... plus engineering facilities for designing and building special machinery ... are at your service, to help improve your output and products.

CAPACITY
Immediately
AVAILABLE
for ball and
roller
BEARINGS
Size 6" to 60"

the WI

nis inspe

s. he

uction

be pas

er. The

to pass

new a sh on oth ins medici

o go in entries ly spea concen

produ meet a is takin

hing 1

For excellence in production of extremely precise, unusuall large ball and roller bearings



* KAYDON

VENGINEERING CORP.

MeCRACKEN STREET . MUSKEGON 81, MICH.

Specialists in Difficult Manufacturing



TENSION!

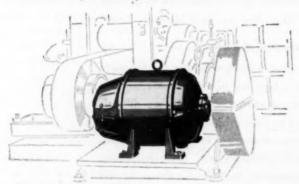


Tension Control can be an important production factor in the processing of such materials as metals, paper and cloth,

which are wound on drums or cores. Tight, evenlywound rolls and uniformity of the finished product often depend upon it.

All of the characteristics necessary to maintaining proper and constant tension control are inherent in Reliance Electric Motor-Drive.

The pioneering work done by Reliance engineers in putting motor-drive to profitable use along these lines proves again that motor-drive can be more than power. The results of their experience are available to you at any time.



Reliance Motor-Drive for Tension Control contributes substantially to quality and uniformity of the finished product, eliminates troublesome clutches—and lowers costs.

RELIANCE TO MOTORS

RELIANCE ELECTRIC & ENGINEERING CO.

1069 Ivanhoe Road

Cleveland, Ohio

Birmingham • Boston • Buffale • Chicago • Cincinnesi • Detroit • Greenville (S. C.) Houston • Los Angeles • Minneapolis • New York • Philadelphia • Pittsburgh Portland (Ore.) • St. Louis • Son Francisco • Syracuse • and other principal cities. enter the field are being investigated find out their potentialities.

WPB's allocation of the penial supply indicates that production in a tember was 50% above August a October probably will show a 60% crease over September. While these sharp percentage increases, product is still far below requirements because the whole program had to start in scratch.

CO

last

a hu ten pect smal

lieve

Peni

wate

teres

lar, near prov

T

worl

Phil Iron

whe

piec

• Two Expansions—Among recent of struction developments were the braing of ground by Hayden Chemical of for a million-dollar plant in Princeton N. J., and the purchase by Chair Pfizer of a refrigerating plant in Browlyn which will cost \$750,000 who completely converted to penicillin.

Among the many short cuts to pericillin production that are being tests is a special type of freezing and driving apparatus developed by National is search Corp. of Boston. Each new divelopment will be important to the or several companies seeking to meet particular problem, but the smash has line story on penicillin will contain the inevitable announcement that someon has synthesized the drug.

Safety Shortage

Lack of manpower, ray materials, and facilities retard production of industrial safet devices; Army demand hurts.

There just isn't enough industrict safety equipment available to meet current war-expanded demands. As in man other industries, the chief reasons a insufficient manpower, raw material and facilities.

New Workers Need More—Anothe major factor is the influx of new workers—men, women, and youths—who require considerably more safety equipment than skilled workers. In addition the armed forces require large quantities of certain specialized types.

For example, military requirement for respirators cleaned out the factore for weeks before the North African in vasion. And WPB, of course, couldn' give industry any explanation for the shortage of respirators, goggles, and glan glasses for civilian war workers.

• To Combat the Shortage—WPB suggests all possible repairs to present equipment in an effort to spread protection as widely as possible while shortage exist, and is urging industry not to overbuy or hoard safety devices.

Industrial purchases of new safety equipment during 1943 will amount to about \$100,000,000. Among the major items are 9,000,000 pairs of goggles 6,000,000 pairs of safety shoes, 4,000,000 respirators, 1,750,000 hard hats, 1,000; COAL RECOVERY

ne peniel

ction in §

August,

v a 60%

tile these

product

ents beca

start h

recent

c the bre

hemical (

Princet

by Char

nt in Bro

lw 000.0

nicillin.

cuts to p

being test

and dry

ational]

ch new d

to the or

to meet

mash hea

contain f

at someon

ge

er, rav

safeh

hurts.

industri

meet cu

s in mar

easons a

material

-Anothe

new work

s-who n

ty equi

nirement

factoric frican in couldn for the and glan VPB sug int equip rotection shortage

t to over

w safety

the maggles, 000,000

, 1,000; 3, 1943 A reclamation project started last week by Stevens Coal Co. on a huge pile of mine waste about ten miles from Pottsville is expected to yield 1,000,000 tons of small-sized anthracite to help relieve the eastern fuel shortage.

Other coal companies in the Pennsylvania hard coal belt are watching the experiment with interest and have their eyes on similar, but smaller accumulations near their collieries if it does prove practical.

The particular pile now being worked is on the property of the Philadelphia & Reading Coal & Iron Co. Most of its coal content is tiny particles, unmarketable when mined about 50 years ago. Demand has developed for smaller pieces, however, with the wider use of stokers and blowers.

A spokesman for the Stevens Co. estimates they will get sufficient coal from the operation to heat 100,000 homes all winter.

0 face shields, and 1,000,000 welding

Correlation High—Average amount ent by industry for safety equipment as \$3.80 per worker last year. The emical industry led with \$6 per capa and showed the fewest number of cidents. This close correlation betten equipment and accidents is shown other industries, lumber, for exameth, having the highest accident rated a relatively low average spent for fety.

WPB's survey showed the following reapita amounts spent by the major anufacturing industries for safety minment in 1942:

hemicals		\$6.00
erchant ships	 	5.75
craft mfg.	 	5.22
on and steel		5.11
ining		4.53
one. clay, glass		4.40
trolcum		3.98
achinery, not transportation		3.50
per		3.19
mber		1.93
ibber	 	1.76
od		1.75
Instruction		.97
stile		.91
blic utilities		.75
mning, leather		.61

Materials Restrictions Shift—Restricons on raw materials that may be ed in safety equipment change as the pplies of raw materials fluctuate. Failto find a substitute for nickel platgobliged WPB to permit its use in ggles. Abundance of magnesium ded restrictions on its use. A SLOWDOWN STRIKE
THAT Workmen
Did Not Gall

Assembly stopped—men waiting—precious hours lost. This slowdown wasn't called by workmen—nor was it sabotage.

A run of parts that wouldn't fit caused the stoppage. It could have been prevented by an adequate gaging policy and inspection practice.

Parts that don't fit cause losses in production, wasted man hours, excessive scrap and rework time that are many times what adequate inspection would have cost.

Sheffield, authorities in Dimensional Control, can help you formulate a sound gaging policy whereby you can gage 100% of your product at a cost insignificant in comparison to the expense of not doing it.

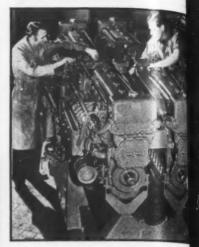


War-Master of Speedup

Goaded by shortages in materials and manpower, today's manufacturers are treading the same critical paths that beset industry during the last war. Results are similar, but amplified better, faster, and cheaper methods of processing. And many old concerns, set in their ways, have been forced to adopt new methods or go out of business—thus acquiring a new lease on life, a toehold on the postwar trade era. But despite improvements, some jobs (lower left) are still performed faster by hand.



Bakelite masks that protect aircraft engine parts from paint sprays (BW— Aug.28'43,p30) are now applied "on the fly" at Ford's Detroit plant. With the new use of a belt conveyor (above), machine sections and working parts are covered six to ten times faster than by bench methods. Matched sets of masks permit instant selection of the proper protector for each part. The conveyor carries the masked sections directly to the painting room.



Using a newly developed gearbon which permits the connection of four engines to a single propeller shaft General Electric engineers are converting six-cylinder diesel units-en actly like those used in trucks and buses-into power plants for military landing barges. Details of the engine combination, designated as the Quad remain a Navy secret. It not only per mits the engines to operate as a single unit but eliminates reversing gean when used with a controllable pitch propeller. In addition, the compact arrangement saves space for fighting personnel and war equipment.



Carl King cuts out leather, rubber, and cloth bomber parts faster by hand than he could using any machine so far designed to replace manual cutting. His speedup ideas have won him many cash rewards at Consolidated Vultee's plant in Downey, Calif.



One of several new profiling machines in a plant of the Overton Co. shapes 18 military gunstocks to master patterns at a crack. Machines, which are built both by Salstrom Carving Machine Co. and by J. S. Richardson Co., are equipped with Graham variable speed drives for controlling carriages that sweep the stocks past routing cutters. A speed range of 50-to-1 allows slow motion on intricate contours, instant speedups on straight cutting. After the war, the profilers will carve wooden oars, plastic antennas.

SPEEDRANGERS

On many applications, variable speed operation offers tremendous advantages. Thousands of alert engineers, like you, have found that the Master Speedranger provides this infinitely variable speed in a compact, all metal unit of proven reliability.

For example, each of the machines shown above use three Master Speedrangers which, in addition to providing the most advantageous speeds, have added greatly to the flexibility, compactness, economy and appearance of the machine.

The Speedranger, on the drive unit on this application, incorporates also a gear reduction unit and an electric brake . . . all designed and built by one manufacturer as an integral, compact power unit. Furthermore, the Speedranger can be supplied in enclosed, splash proof, fan cooled or explosion proof construction, and for flange mounting, or with its construction modi-

fied so that the mounting possibilities are practically unlimited.

No other variable speed unit on the market today can give
you such flexibility and compactness.

The next time you need a drive for material processing, handling and Conveying equipment; mixers and agitators; welding positioners; machine tool drives; testing and calibrating equipment . . . to name only a few . . . see what a really remarkable job Master Speedrangers can do for you.

THE MASTER ELECTRIC COMPANY . DAYTON, OHIO

rriages
ing cutallows
irs, initting.

gearbon of four of four shaft are continuits—exacks and military e engine Quad, only persa single gears de pitch

compact fighting

T943

carve



Another FIDELITY Machine war-born with peace-time applications—perhaps for you

If you have many small metal parts which have had to be sorted and handled manually in large quantities—you will be interested in this adaptable basic machine which FIDELITY has made in a number of variations.

The parts are dumped into a hopper from which they are fed out in single or multiple tracks, in correct position for the next process. In some cases, sequential steps are taken care of by additional mechanisms or attachments, made integral with the automatic hopper and feeder element.

The machine illustrated sorts and delivers copper slugs through eight tracks at the rate of 20 slugs per minute per track—a total of 160 per minute.

Receiving trays, platforms or troughs in such machines can generally be designed to function also as piece counters or batch boxes.

The range of FIDELITY'S developments in special machines designed and built to solve unusual and special production problems is described briefly in "Machines and Mechanisms."

A copy of this book is available if you write on your business letterhead.

Designers and Builders of Intricate, Automatic Precision Machines

32 YEARS' EXPERIENCE

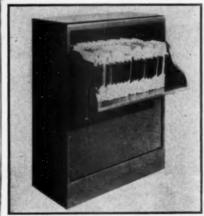
FIDELITY MACHINE COMPANY

3908-18 FRANKFORD AVENUE PHILADELPHIA 24, PA.

NEW PRODUCTS

Rock-a-File

Most apparent departure from orthodox filing practice to be found in the Rock-a-File, new product of Rockwell-Barnes Co., 35 E. Wacker Dr., Chicago 1, is the replacement of sliding drawers with side-opening compartments. You swing one outward and



downward, and there are the contents in full view with all the filing-folder tabs evenly "jogged," orderly, and in easy reach.

Less apparent is the fact that you can place a side-opening file (it comes in one-, two-, three-, and four-compartment models, both letter and legal size) in locations where drawer-type files would be practically unusable, as for instance along narrow corridors, in alcoves, and small closets. Even when all compartments are open at one time, such a file does not tend to become unbalanced and tip over. The Rock-a-File is also available in space-saving desk models for 3x5, 4x6, or 5x8 cards.

Saf-t-Bra

Comfort and protection are promised women workers by the Saf-t-Bra, a new lightweight, ventilated brassiere developed by Willson Products, Inc., Reading, Pa. It is so designed that the washable plastic cup for each breast extends well back under the arm to "prevent possible injury of the delicate and sensitive lymphatic glands. . . . Adjustable wide web suspender harness prevents strain on neck muscles." It is available in three sizes.

Floor Patcher

Last year the Walter Maguire Co., Inc., 330 W. 42nd St., New York 18, brought out Cortland Emery Aggregate, an additive consisting of abrasive emery grains for portland cement to be used in putting nonskid surfaces on concrete

floors. This month, the company bringing out Emeri-Crete, a new paraged blend of finer emery particles as a quick-setting binder for filling crad small depressions, ruts, or other imprections in concrete or cement floors. mixed with water and applied in account ance with directions, it promises a nonly to "make repairs permanent" in also to permit "use of the floors in a or seven hours after the repair has be made."

t swi

a labo

side

of that of the

m ui

ached

lso av

untir

nulsi

Plastic Coat Hooks

When brass and bronze became scan the U. S. Navy's Bureau of Ships adopt Plastic Coat Hooks molded out of To ite II (Tennessee Eastman's cellula acetate butyrate) by Pyro Plastics Co Westfield, N. J. During wartime, it new conveniences are made only in a ulation navy copper-brown color; con postwar, they may be molded for civilia



in standard hardware hues of red, gree blue, ivory, and black. That they may permanently compete with metal is or denced by the fact that four of them a injection-molded at a time in approximately 50 sec., or 12½ sec. each—fully a fast as wire can be bent and threade into a hook, considerably faster than bronze hook can be molded and cast is sand.

Heat Sealer

If your packaging volume runs to small for mechanized heat-scaling, o you can't get delivery on a machine to do the job, you might try a new han tool developed by Pack-Rite Machine Division, Techtmann Industries, Inc 828 N, Broadway, Milwaukee 2. Calle the Multi-Use Sealer, it is essentially a electrically heated iron, 5 in. long and in. square, inserted at a slight anglinto a heat-resistant handle, equipps

h flexible connecting cord and three-

For flat scaling of overlapping bands a labels of heat-sealing material, use side of the iron; for spot sealing of kages, overlays, etc., use the square of the iron. For sealing pinch-type nds, tops of bags, envelopes, etc., slip of munder a spring clip which comes ached to one side of the iron. There is available a clamp for wall or table bunting.

nulsion Cleaner

company

new p

articles a

ling crad

ther imp

nt floors. d in acco

omises

anent"

doors in

ir has be

ame scare

ps adopt

s cellulo lastics Co

artime, to

olor; cor for civilia

red, green

they m

etal is er

f them a

n appror

h-fully

thread

ter than

nd cast i

runs to

ealing,

achine t

new han

Machine

ries, Inc

2. Calle

ntially a

long an

ght ang

equippe

Effectiveness of alkaline cleaners is d to be heightened if greasy, gritty tal parts are given an advance dip in thone Emulsion Cleaner, new formusion of the Enthone Co., 442 Elm St., w Haven 2, Conn., plus an advance ter rinse. The liquid, which comes dy for use, is described as an "emulable solvent . . . of high penetrating wer," particularly effective in removermetallic dust, carbon, dirt, drawing mpound fillers." It also comes as Enome Emulsion Cleaner Concentrate to mixed with several volumes of solvent on thas and used in the same manner.

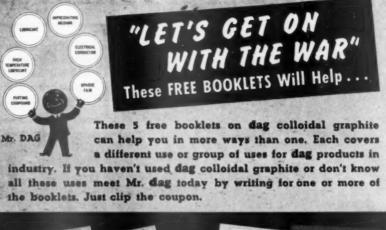
ew Products Briefs

Also reported this week, not only for ir interest to certain designated busiis fields, but also for their possible imit in the postwar planning of more or allied fields and business in general, the following:

Aviation—Clifford Mfg. Co., 564 E. at St., Boston, announces production new Aircraft Engine Radiators (Present type) and Oil Coolers for the Army Forces. They are made of aluminum or, "saving two-thirds the weight of per units of the same size and ima"

Textile—U. S. Patent No. 2,330,251 is eproperty of Celanese Corp. of Amera. 180 Madison Ave., New York. It wers a new method of fireproofing texes made of cellulose acetate or other ganic derivatives of cellulose. The cess consists of impregnating the manal with a halogenated alkyl ester of the office of the chemical to which pine oil divater have been added.

Printing—Spherekote, a new and "ently different tympan paper," comes im Minnesota Mining & Mfg. Co., 2 Paul 6, Minn., with a coating of mall glass spheres or beads, each as mooth and perfectly shaped as a glass arble, yet so minute that 50,000 are quired to cover a square inch of surce." Actual production runs "on all pes of rotary and perfector presses" are id to have proved the ability of the uper to "reduce offset, improve printing quality, reduce the number of stops wash-up, reduce wash-up time, lower poduction costs."





1-BULLETIN No. 421

ASSEMBLING AND RUNNING-IN ENGINES AND MACHINERY

Lists 10 advantages of adding dag colloidal graphite to liquid lubricants for these operations and tells why with photographs, charts, and simple, non-technical text.

3-BULLETIN No. 423

HIGH TEMPERATURE LUBRICATION

How dag colloidal graphite takes over when the going gets too hot for conventional liquid lubricants. Gives examples in forging, oven conveyors, kiln cars, bottle and die casting machines, etc.

2-BULLETIN No. 422

PARTING COMPOUNDS

Tells how dag dispersions prevent objectionable freezing, rusting or sticking together of metals and other materials. Cites use on screw threads, lamp bulbs, aviation and diving equipment; also in glass, rubber and foundry industries.

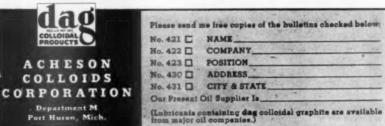
4-BULLETIN No. 431

"dag" COLLOIDAL GRAPHITE FOR IMPREGNATION AND SURFACE COATING

of textiles, asbestos, felt, abrasives, porous metals, paper, wood, etc. to impart lubrication properties, electrical conductivity, opacity, color, or other desirable qualities.

5-BULLETIN No. 430

GENERAL BOOKLET—The story of dag colloidal graphite. 12 pages fully illustrated. Gives the how and why of colloidalization, explains the various liquid carriers and suggests dozens of places where dag dispersions can speed up production.



Take a Look at TOMORROW- Joday

Get the

PROTECTION

of CENTURY
SPLASHPROOF
MOTORS

Engineered to provide full protection for indoor or outdoor installations against the effects of splashing liquids, water from plant washdowns, and falling solids, Century Splashproof Motors are also available with special insulations for use in atmospheres charged with abnormal concentrations of acids or alkalies.

Splashproof is only one example of the many Century Motor types, from fractional to 600 horsepower. And today, under the demands of War, finer Century Motors are being produced than ever before. Now—and after Victory—look to Century for all your electric motor requirements.

CENTURY ELECTRIC CO.

1806 Pine Street St. Louis 3, Missouri

Offices and Stock Points in Principal Cities

Century MOTORS Mr. Now: We wash down the plant every day but these Century Splashproof Motors keep a-runnin'.

Mr. Postwar: I'm gonna remember Century for all my tough jobs.

geta



If you have not received our new bulletin on polyphase motors, write for it at once.

eilings Approved

Overproduction of luxury ms believed headed off by ce lid on fresh fruits and getables.

ther a fortnight of seesawing, Econic Stabilization Director Fred M. son gave his blessing last week to program of the Office of Price Adistration and the War Food Admintion for putting price ceilings on fruits and vegetables.

commendations Are Accepted—The ings finally announced are substany unchanged from those which OPA WFA jointly recommended to Vin-

lence, Vinson is going along with idea (more WFA's than OPA's) that prices on "essential" crops like snap is, carrots, spinach, and tomatoes idn't be cut back as severely as caulier, celery, cucumbers, green peppers, such (BW—Oct.16'43,p84). It is the back on the Bureau of Labor States.

c' cost-of-living index won't be as

HOW THEY PLANTED

Growers harkened to the War Food Administration this year, planted pretty much what they were told. Here are estimated production and acreage of commercial track garden crops for fresh market in terms of the percentage change from 1942:

	Production	Acreage
Artichokes	. — 3	- 8
Asparagus	4	0
Lima beans	7	- 8
Snap beans	+10	+17
Beets	3	+ 2
Cabbage	. —14	- 4
Cantaloupes	_17	-26
Carrots	. +34	+35
Cauliflower	23	-15
Celery	10	-10
weet corn*	. — 3	+ 1
Cucumbers	-31	-26
Eggplant	—18	-15
Escarole	. —17	+ 4
Kale	+58	0
Lettuce	8	-13
Onions	20	-20
Green peas	<u> </u>	-10
reppers	. — 2	+ 4
opmach	-7	0
lomatoes	. + 2	+ 2
Watermelons	-28	-34
-		

Three states only.

severe as it would have been if the essential vegetables, for which it is heavily weighted, had borne the full brunt of the slash.

• Won't Affect Index—In fact, the immediate effect of the ceilings on the index will be practically nil. Some vegetables—snap beans are a good example—are now selling at, or even below, the new ceiling prices.

What the ceilings will do is prevent a repetition of last year's experience when a 55% increase in prices of fresh fruit and vegetables boosted the index during the winter months.

• To Guide Growers—OPA rushed through the announcement of country shipping prices to guide growers in fall planting. Wholesalers and retailers will be given their markups later.

But by announcing the prices it expects to prevail at retail levels as a result of the rollback, OPA has given distributors a pretty good idea of what's in store for them.

By using the same zoned-price, basingpoint system developed for cabbage and lettuce, OPA expects to get dollar-andcents ceiling prices—or a good approximation thereof—at retail on all fresh fruits and vegetables. Even the citrus fruits regulation is now being revamped along basing-point lines.

• Veiled Threat—Although commercial truck growers don't like price ceilings any better than anybody else, they admit privately that if the ceilings hadn't come through when they did, next year might have seen a glut of Persian melons and cucumbers, acute shortages of some of the less glamorous but more necessary items.

This year WFA managed to convince growers that they should go heavy on the essential crops. WFA's exhortations were larded with strong hints that anybody who failed to conform might have trouble getting fertilizer, crates, and even shipping space.

As the Dept. of Agriculture's production estimates show (table, left), growers took this counsel to heart and planted just about what they were told.

• Everybody Cleaned Up—Without price ceilings, however, WFA might have had trouble selling the same line a second time. Growers found they had a tough time no matter what they planted as far as fertilizer and crates were concerned.

But with no lid on prices, everybody-growers, middlemen, retailerscleaned up on the reduced acreage of luxury crops to a tune that invited heavier plantings in 1944.

Admittedly, growers didn't lose money on the essential crops, either. Last April, string beans were selling in

WINTER LIMITS

Prices on the 13 fresh vegetables OPA put under ceilings last week may not be much below present levels, but they will be a lot lower this winter than they were last—even after permitted seasonal increases. Generally, luxury crops will be trimmed closer than the ones WFA rates essential.

Some luxuries haven't been hit as hard as others because OPA and WFA couldn't go below the legal minimums established by Congress (parity or the top price between Jan. 1 and Sept. 15, 1942, whichever is higher), and these were higher on some vegetables than on others. On one croppeas—the legal minimum is so high that the ceilings won't bring any price reduction, may even require a slight increase.

Here are rough estimates of how much retail prices of the 13 vegetables will be cut back from last winter's highs:

mot winter a mgma.	
	Percent
	Change
Lima beans	20
Snap beans	-20
Cabbage*	-35
Eggplant	 50
Lettuce*	-30
Carrots	-10 (or less)
Cauliflower	-50 to -60
Celery	 70
Cucumbers	-35
Peppers	-50
Peas	
Spinach	—10 to —15
Tomatoes	-30 to -50

* Rollback was started earlier this summet and is simply incorporated in the new regulation.

In addition to this rollback, OPA has served notice that five more fruits and vegetables will come under ceilings soon—beets, asparagus, watermelons, cantaloupes, and the 1944 onion crop. Still later, OPA will get around to sweet corn, broccoli, brussels sprouts, turnips, rutabagas, kale and other greens. Peaches, apricots, and other seasonal crops will be slapped under ceilings next spring as fast as they come along.

eastern chain store supermarkets at 35¢ and 40¢ a lb. In only one instance—carrots—did WFA's advice result in a planting big enough to break the market.

But, by and large, the returns on the necessities were nowhere nearly as alluring as on the luxuries. If OPA hadn't stepped in with ceilings, the almost-certain result would have been a bumper crop of cauliflower this year.

A SURPRISING THING about sound is that when the human voice is electrically amplified, the amplification sometimes causes harsh overtones that make it difficult to understand.

One of the jobs of Dictaphone research is to assure that any voice will be clear and intelligible when a secretary "plays it back" for transcription.



Dictaphone engineers don't aim to reproduce sound with absolute fidelity. You might call them sound sculptors. They trim away a resonance here . . . step up a tone there . . . until every syllable can be understood by the secretary who listens and types.

It is fortunate that such knowledge and skill were ready and could be put to practical uses by the Government and industry to meet the urgent demands of war...fortunate for busy men whose time and energies count

for so much in the victory drive.

From the Dictaphone Research Laboratories at Bridgeport, Conn., have come many other improvements in electrical recording for use in war-industries and by the armed forces. The experience gained in the production of this war equipment will be available to extend the usefulness of the Dictaphone method after the war is won.

Dictaphone Corporation, 420 Lexington Avenue, New York 17, N. Y.



DICTAPHONE

Dictaphone equipment is available to firms whose work is essential to the war effort.

The word DICTAPHONE is the registered trade-mark of Dictaphone Corporation, makers of dictating machines and other sound recording and reproducing aquipment hearing said trade-mark.

Corn for War

Production officials urg cut in hog feeding next years processors of grain will be sur of adequate supplies.

e 0

d wil

real

recor

Cor

to ta

al

Ar

po

civil

on

Army, Navy, and top war products officials all are warning the Wa House against letting hogs cat so ma corn that processors of the grain was lack raw material in 1944 as they have in 1943. Under Secretary of War Robert P. Patterson, Under Secretary the Navy James Forrestal, and War Robert P. Patterson, Under Secretary the Navy James Forrestal, and War Robert P. Patterson all urge immediate and has corrective action in addition to gove ment stockpiling of 50,000,000 but corn to be earmarked for wet and a processors.

• Present Effort—The War Food A ministration is appealing to farmers sell corn under its guarantee to pay the any increase in corn ceilings prior Nov. 30 on corn marketed from Sq 28 through Oct. 31. A similar guar tee in July yielded 35,000,000 bu. who supplied processors through Septemb War Food Administration hopes garner at least an equivalent amount if

WPB officials scathingly indict inflated hog for impeding the war p gram. They have charts, tables, a text depicting its hampering influen on war industries ranging from ad sives and asbestos to iron ore and troleum. They charge that WFA or rectives to date have been palliative.

• Bill of Particulars—Some of the point.

month.

in WPB's indictment are these:

(1) That because corn isn't moving deficit feed areas, the shipping of iron on the Lakes has been dangerously reduced priorities to import Canadian wheat feeding livestock in such dairy areas as to Northeast.

(2) That by pre-empting grain needed alcohol and rubber production, the hog compelling the use of tankers for the aportation of Caribbean molasses for inditrial alcohol whereas these tankers others could have been used for shipping pt leum from Gulf ports.

(3) That by retarding the production casein, through the excessive feeding skim milk to hogs, it is necessary to imprease from Argentina for use in the mar facture of adhesives needed in the production of paper, textiles, plastics. V-box prefabricated houses, building materials

defense housing, and paints.

• Suggested Steps—WPB officials of mand a sharp reduction in the production of hogs. This would be accordingly be cutting profits to be maded to hogs by (1) upping the ceiling price corn, or (2) reducing the ceiling prior on hogs.

The current corn ceiling is appromately \$1.07 a bu., Chicago: the h

ceiling is \$14.75 a cwt., Chicago. com-hog ratio of nearly 14 to 1 asts with the theoretical break-even of 10 to 1 or 11 to 1. Wartime for the ratio in the Corn Belt was to 1 in October last year.

r

als urg

t year

ll be sur

product

the Wh

it so my

grain ;

they h

f War R

ccretan

d War P

Donald

and h

to gove

.000 bu.

ct and

Food

farmers

o pay th

gs prior

from Se

ilar guar

bu, wh

Septemb

hopes

mount t

indict t

ic war p

ables,

influen

rom ad

re and p

WFA o

palliativ the poin

moving

iron ore

reduced wheat I

ircas as f

needed f

the hog or the i

for indi s otherw

ping pet duction

feeding to imp

the ma

he prod

aterials f

ficials e produ

made (g price

ing pri

the !

23, 19

ese:

e Official Goal-To conserve feed, Food Administrator Marvin Jones ing hog producers to limit 1944 putput to 100,000,000 head comwith 125,000,000 in 1943. Offirealize, however, that in view of ecord-size 1943 corn crop in prin-Com Belt states, it may be necesto take action on prices.

aut Is Out

Packers' stocks are frozen Army needs are filled, and portends a lonesome winter civilian tables for spareribs.

ivilians' last hope of getting any mercial sauerkraut this year faded week when the War Food Adminison froze packers' stocks until milirequirements of 3,500,000 cases 2 cans) are filled. With most kraut ers getting about half as much cabas usual, says the National Kraut kers Assn., there will be very little

enty of Cabbage-There's no dearth abbage; the U. S. Dept. of Agrimre estimated on Sept. 1 that the (northern states) crop would total ,000 tons, compared with 390,100 last year and 399,500 tons for the 2-41 average.

eason for the kraut shortage is the endous demand for table cabbage, the difference between price ceilon the table crop and on the kraut

lable cabbage is picked early to obthe small, green, relatively loose usually preferred by the retail de. Kraut cabbage is allowed to maein the field, and while farmers norlly get about \$5 less a ton for it, they ke as good a profit because the heads farmer and heavier (up to 12 lb.) as a mature.

ig Table Sales-Ordinarily there's litcompetition between buyers of the types, but this year because of the stage of other fresh vegetables, heads ghing up to 10 lb. were sold for table One shipper reported selling a load "table" cabbage that averaged only heads per 50-lb. sack.

As kraut packers tell it, buyers of en cabbage "swooped down on the dis like vultures," paying farmers \$30 m, which they could well afford bete of their \$2.90-a-hundredweight to retailers. Held to Ceiling—Packers, however,

te held to the \$12-a-ton, 60¢-a-hun-

dredweight ceiling which WFA announced last April, with the understanding that kraut prices would be adjusted accordingly. (No kraut ceiling has been established yet; theoretically, at least, each packer is operating under maximum prices as of March, 1942, at which time he was paying \$7 a ton for cabbage.)

As a result, packers are nearly idle now-at what should be the height of their packing season. One 58-year-old company, Christ Sievers, Inc., Chicago, reports that by the first week in October it had packed only 300 barrels, compared with the 3,000 it would normally have packed by that date.

One of the largest New York companies reported its pack as of Oct. 5 as only 300 tons, compared with 10,000 tons in the same period last year. A Wisconsin firm, the Shiocton Kraut Co., reports its current pack as 50% of normal.

• Price Lid Lifted-On Sept. 28, WFA announced that packers could pay \$22 a ton for cabbage, and again promised that the March, 1942, ceiling on kraut would be adjusted accordingly. This may yet assure some cabbage for packers, but weather conditions will deter-mine how much they get. While the \$22 ceiling will salvage

some profit for packers who work on contracts and managed to make some of them stick, it's no help to the smaller outfits which always buy their cabbage on the open market but haven't been able to touch any of it this year for less than \$35 to \$40 a ton.

• Army Pays Ceiling-That's where the freeze really hurts. Now that the Army is their sole buyer, packers can only ex-pect to sell their product at a ceiling price-still to be announced-based on the \$22 ceiling on cabbage. Those who had to pay nearly twice that much to compete with table cabbage buyers are just out of luck.

Oysters Are In

Harvest, now hitting full stride, may be close to normal if prices aren't controlled; but the services get first pick.

Fear of an OPA price ceiling that would drive oyster fishermen into more lucrative wartime employment is the big cloud overhanging the oyster industry as the 1943 harvest swings into full stride. Barring such a development, the industry won't fall far short of the normal annual crop of 90,000,000 lb. of

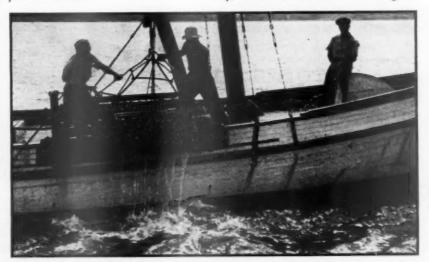
meats, despite labor stringencies.

• Take What's Left-That doesn't mean that oysters will be plentiful in the public markets, for the civilian consumer will take what is left after the armed forces have skimmed off the first 40,000 gal. a week. But it does mean that oyster-packing plants can achieve something approximating normal operation-if their containers hold out.

Containers could prove a bottleneck. Metal containers are rationed, glass is of limited suitability, and fiber containers (for shorter shipments) are available only in limited quantity and must be ordered several months in advance. Boats are no problem; the Navy took few of them because oystering vessels are ill-suited to Navy needs.

• Where They're Found-Chesapeake Bay and Long Island Sound have the most valuable oyster beds in the United States, although oystering is carried on also in inshore waters along the Atlantic seaboard southward from Massachusetts, on the Gulf Coast, and on the Pacific Coast (principally Puget Sound).

Maryland and Virginia top other states in both quantity and value of output. The Long Island Sound industry, however, shows a much higher



While harvesting their beds through the "R" months, oyster fishermen now find their biggest worries are prices, manpower, and container shortages.



The American railroads are answering that call. They are moving approximately 30,000,000 pounds of food a day for our fighting men, more than 1,000 carloads of food a day for our fighting Allies, and most of the huge bulk of products from farms and processing plants which feed the 126,000,000 of us here at home.

The Norfolk and Western Railway serves a great cross section of the nation's rich agricultural storehouse. Throughout this fertile region, farmers are growing and harvesting, and plants are processing an ever mounting volume of food. The Norfolk and Western serves them . . . with pride . . . for the fruits of their labor is a mighty weapon of Victory and Freedom.

TOMORROW . . .

When Victory is won, agriculture and industry in N. & W. territory will play an important part in establishing peace and progress.

Write the N. & W.'s Industrial and Agricultural Dept., Roanoke 17, Va., for complete information about ideal industrial and agricultural locations in "The Favored Land."

NORFOLK and WESTERN Railway

ONE OF AMERICA'S RAILROADS ... All UNITED FOR VICTORY!

BUY MORE WAR BONDS

ratio of value to output because a larger proportion of the oysters is estined to wind up on the half shell and thus command a higher price than the Chesapeake shucking stock.

• Half Are Cultivated-Comi creially cultivated oysters account for well over half the country's supply. Oy er culture is particularly intensive in the North. Long Island Sound oysters are transplanted as many as five times (from seedbeds to growing grounds to fattening grounds, etc., to improve their edibility on the half shell) before they are ready for market. The important beds in that area are just beginning to show signs of full recovery from the 1938 hurricane. Ordinarily this would mean a supply of larger and tatter oysters this year because it takes five to six years for the oyster to mature in those waters. But many of the planters depleted their beds last year by selling even their threeyear-olds to take advantage of the big prices that were offered

Manpower problems hold fewer terrors for the industry since oyster fishermen and shuckers were given deferred draft status. But the competition of war industries—particularly in the South where shuckers are commanding and getting double their normal pay—is a

continuing threat

Too Many Eggs

Government manages to unload shell stocks, but drop in demand for dried product poses tougher problem.

It looked for a while last week as though government food men might never get their eggs unscrambled.

Several thousand cases of shell eggs had been put up for auction and scorned by the trade. Even more serious was their second egg problem, for Uncle Sam was under contract to buy some 30,000,000 lb. to 40,000,000 lb. more dehydrated eggs than he could find use for

When the Food Distribution Administration offered for sale a surplus of between 15,000 and 17,000 cases of shell eggs in the Northeast, it found no takers. Dealers, able to buy fresh eggs, refused to buy storage eggs unless they knew whether they had gone into storage last March or at what time since then.

Observers figured that if the FDA did not regrade the eggs it would have to sell them as Grade C. But FDA was holding out for a higher price. An alternative was to sell them to freezers who could grade the eggs when they opened them for freezing.

• Purchasers Appear—By the end of the week, however, about 15 of New York's

AMERICA'S RADIO INDUSTRY ... WORKING TOGETHER FOR VICTORY



larger stined d thus Chesa-

rcially l over

r cul-

1 the rs are (from attenr edi-

beds show

1938 mean s this rs for

aters.

their

hree-

e big

sher-

erred

n of

outh

and

is a

to

rop uct

c as ight eggs ned was nele ime ore

usc

iin-

of

no

igs,

ornce DA ive vas CIho

cd

43

.. Radio Brings Them the Sidewalks of Home

Sure enough, that's a New York announcer giving the football scores! And there's no mistaking that hot music-it's a famous Chicago "name" band. And that comedian from Hollywood-why, he's the same zany who kept them in stitches every week back home.

American radio manufacturers have supplied sturdy little short-wave sets that bring America to any part of the globe. And that's been a big factor in the sky-high morale of our fighting men overseas.

Every day, U. S. radio manufacturers are making huge deliveries of military radio equipment to speed the day of victory. Their war experience, added to their manufacturing skill, is effecting technical advances that will be important to peacetime production.

Your purchase of War Bonds will help supply American fighting men with the world's finest equipment.



SCIENCE SMASHES AT THE AXIS in RCA Laboratories, working unceasingly in radio-electronic research. Proud of the privilege of serving America's great radio industry in its united war against the Axis, RCA will continue to make the fruits of its basic research available to American makers of radio equipment. This will help American manufacturers to provide finer radio-electronic products and services to a world at peace.

A SERVICE OF RADIO CORPORATION OF AMERICA

We Need Postwar Engineers Now!

This company, while continuing its extensive war program unabated, is expanding its Engineering Department in accordance with a substantial post-war product development program. Trained men, by virtue of education and/or experience, are needed in the Test, Methods and Development Engineering Divisions. Special emphasis is placed on the need for experienced men with a flair for design and development work in the fields of electronic and mechanical engineering, particularly in conjunction with automatic control equipment. Previous experience with heating, ventilating, air conditioning and refrigeration installations is desirable, but not necessary.

Engineers, with an eye to the future and who are not now engaged in essential industry, should apply by mail enclosing photo or recent snap-shot if possible.

Applicants should give complete educational background, age, family status, experience, names of companies for whom worked and salary received in each position. Give complete information concerning draft status and present work.

If application appears to fill requirements, arrangements will be made for personal interview. Write Executive Engineer.

MINNEAPOLIS-HONEYWELL REGULATOR CO. Minneapolis 8, Minnesota



Greenwich Street egg merchants had got up their courage to bid on the government hoard. Prices ranged in general from 33¢ a doz. for No. 1 standard to 51¢ for No. 2 extras on the 10,578 cases sold, virtually in line with prevailing open market prices.

Presumably most of the eggs will go to freezers. But since the eggs must be regraded before delivery, some may be sold to dehydrators or shell egg retailers.

But food experts recommend freezing. Bakers don't like to admit it, but they can and do use frozen eggs that are less than fresh with complete satisfaction. Dehydrators, on the other hand, can use only first quality, fresh eggs. These keep two to three months when dried, although they may be used in cooking when considerably older.

• Dried Egg Surplus—FDA officials find the dehydrated egg problem a tougher one to solve. The dilemma: While consumer channels are actually suffering from a shortage of fresh eggs, quantities are constantly being bought by dehydrators and sold as dried eggs to the government whose claimant agencies, chiefly Great Britain, are not coming through with orders in quantities previously described as necessary to meet 1943 needs.

Not so long ago, FDA was pushing

production of dried eggs as hard as possible. It granted top priority orders on necessary equipment for dehydraton and even omitted cancellation clauses in contracts for buying eggs so that processors could obtain bank credit more easily. That's why FDA is on such a spot now.

To date there has been no favorable response to FDA's request to dehydrators to cut production 50% voluntarily. Reasons, obviously, are economic; the processors have to fulfill their commitments and protect their investments.

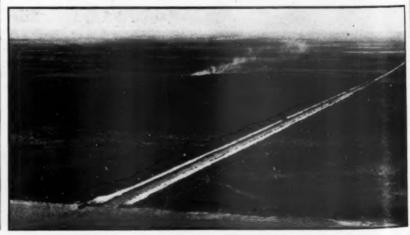
• Switch to Dried Milk?—One possible out for processors would be a shift to production of spray-dried whole milk to which egg-drying equipment would be adaptable. There is considerable demand for this product, although them is an adequate supply on hand of the roller-dried milk which is used for animal feed.

Catch to this is that processors probably could not turn their egg-breaking equipment in on the accessory applances for milk drying in the face of the present shortage of dairy equipment. And, in any event, milk dehydration would not absorb 50% of the present capacity for drying eggs, now figured at 300,000,000 lb. to 400,000,000 lb. a

BEFORE AND AFTER

Seen from a plane, Florida's Everglades looks like a hopeless agricultural waste. But in one sector 100,000 acres of luxuriant farms (right) are bearing the fruits of constant reclamation in two to four crops yearly. The secret of the swamp's amazing fertility is its 15-ft. layer of peat, which must be kept moist to keep it from burning spontaneously (below) but dry enough to permit growth. Surveys show that canal drainage can reclaim another 400,000 acres of the 2,600,000-acre Everglades.





rd as posorders on hydraton lauses in hat procn such a Salatelle. favorable dehydramic; the

PREVIEW OF TOMORROW'S POWER

F you want a glimpse of how tomorrow's hard jobs will be done, ok at what is doing the tough war bs today — such jobs as building fields in the jungle.

dit mon

untanly

commitnents. possible shift to milk to ould be ble deh there of the for anirs probreaking of the pment. dration present ured at) lb. a

> Look in tanks and trucks, in landg barges and patrol vessels, in actors and auxiliaries. You'll find eneral Motors Diesel Engines packg them with power.

> This grueling service is emphasizg the virtues of GM Diesels-highghting their ruggedness—showing

how little fuel they use, and low-cost fuel at that.

With the war won, our expanded facilities will be turned to peacetime needs, and these engines will be available for many applications where America will need dependable, economical power.



New eras of transportation follow in the footsteps of war. Another new era of transportation is assured in the wake of this war. General Motors Diesel Locomotives already are establishing new standards.

BACK THE ATTACK-WITH WAR BONDS



ENGINES. 15 to 250 M.P. DETROIT DIESEL ENGINE DIVISION, Detroit, Mich.

ENGINES, .150 to 2000 M.P... CLEVELAND DIESEL ENGINE DIVISION, Cleveland, Ohio

943

MARKETING

Margarine Push

Consumers, with interest kindled by rationing along with scarcity of butter, start drive to repeal old U. S. imposts.

When New York's Mayor Fiorello H. LaGuardia goes to Washington next week to appear at hearings on the Ful-mer bill (HR 2400) to repeal federal taxes on margarine, he will represent a new element-the consumer-in a battle which has been fought for 57 years by the dairy interests on one side, and the soybean, cottonseed oil, and margarine producers on the other.

• Taxes Come to Light-Appearance of consumers on the side of repeal in what has long been almost exclusively a fight between two lobbies stems directly from the wartime shortage of butter and its resultant high point value. Turning to margarine at 4 red points a lb. from butter now at 16, housewives have awakened to the fact that they must pay high federal taxes and license fees.

Enacted in 1886 as protective legislation for dairymen, federal margarine levies include a per pound tax of 10¢ on colored margarine, 1¢ on uncolored; license fees of \$600 a year for manufacturers, \$480 for wholesalers who sell colored margarine and \$200 for sale of uncolored; \$48 from retailers for sale of colored margarine and \$6 for uncol-

• Kitchen Blenders - Consumers are doubly annoyed that the differential between colored and uncolored margarine leaves to them the job of coloring their own in the kitchen if they use margarine as a butter substitute.

Although in a good many states, notably Pennsylvania, California, and Wisconsin, state taxes are more prohibitive than federal levies, consumers are grumbling to their congressmen in Washington this year because 1943 sessions of state legislatures have ended and 1944 will be an off year.

• Status Quo Disturbed-The coming of new blood into the battle has thrown new life into both lobbies, which, fighting it out between themselves, had come to a stalemate of late years. When Rep. Hampton P. (Margarine) Fulmer of South Carolina and Rep. August H. (Butter) Andresen of Minnesota agreed over a year ago not to push any legislation on either side, they merely underlined the stalemate.

Since then, margarine manufacturers and their suppliers have been too preoccupied with the prosperity derived from generous fats allocations (180% of 1941-42 average), government orders, and sales opportunities resulting from butter shortage to campaign vigorously for elimination of the punitive taxes. Producers of leading brands were selling all they could make, so they could afford to wait for what they believed would be the inevitable consumer reac-

 Dairymen Blow Cold—Butter interests are being further undermined by the fact that a number of big cheese, evaporated, and dried skim milk producers have begun to wonder if they are not fighting for an outworn ideal rather than a matter of expediency. Such dairymen have become more than slightly lukewarm in their support of the butter men in a battle they feel is winning nothing but consumer ill will.

Also some big merchandisers of but-

ter and dairy products such as Kraft Cheese, and certain meat packers, who have been in the margarine field for some time, are now willing to take the position that both products should be permitted to seek their own level.

Retail grocers, two-thirds of whom do not sell margarine because of federal and state taxes, have lined up with margarine interests. With little or no butter to sell, they welcome margarine as a good substitute in grocery volume.

• Shedding the "Oleo"—All this is

much more important in Congress-

where the final decision will be ma than the fact that all the old argum which dairy interests once used so cessfully against the margarine inde have largely lost their validity.

Today's margarine, unlike the "d of the last war, has the same 80% content as butter, thanks to hydro ated vegetable oils (chiefly cottor and soybean), and the same 3,300 dries per lb. Nearly 90% of all marine is "vitaminized" and contain, government standard, 9,000 Us units of vitamin A-an amount equi the year round average for butter. • Votes of Confidence-Uncle Sam shown his confidence in the pro

not only by giving it the 180% quota, but by serving it in the lun rooms of government buildings Washington as well. Furthermore Distribution Administrat bought 49,000,000 lb. of margarin the first seven months of this vo more than the 40,000,000 lb. of bu that was put in storage by FDA in same period.

Monthly production figures of Bureau of Internal Revenue show 1943 output has in general been about twice that of last year. However, the was a drop off in civilian consumpt last spring when the first ration val left a differential of only three poi between butter at eight and marga at five. This was particularly marked May when production dropped to 775,000 lb., a figure only slightly high than May, 1942, when an output 27,971,000 lb. merely reflected the no mal seasonal slump. Historically man

OPA "Borrows" Army's Houston

Now in charge of OPA's rationing is Col. Bryan Houston, borrowed from the Army Service Forces for the job -but not without a bang-up fight. The colonel was filling an important spot in ASF as assistant director of the purchases division (where he headed up contract termination) when OPA's general manager, Chester Bowles, decided he was the man to succeed Paul O'Leary, ousted professor. ASF thought otherwise, but Bowles remembered that James Byrnes, Office of War Mobilization chief, had once promised him any-one he needed. He laid his demand before Byrnes and won out. And, although Col. Houston is technically on loan to OPA, the Army has slim hope of ever getting him back if he clicks in his new job.

A Texan, and a descendant of Sam Houston, the colonel was a former vice-president of the advertising firm of Young & Rubicam and a business crony of Bowles, former partner in



Benton & Bowles agency. Earlier in his career Col. Houston knocked about the oil industry, which should make him a natural for his new post since gasoline and fuel oil are about the only hot rationing items left.

Medical Manual M

Mechanical Hair Drier, Powered with *Emerson-Electric Motor*, Dries Heaviest 'Suit' of Hair in 10 Minutes!

This Startling Invention of 1898 Pioneered Another Great American Industry

By the ingenious combination of a gas burner and electric motor-driven blower, heated air was forced through a pipe to the desired elevation. Women marveled at the time saved in drying their hair. The news spread, more shops were opened. Today, a nation-wide industry of equipment and supply manufacturers, distributors and beauty salons serves the women of America.

This is but one of many instances where Emerson-Electric has kept pace with the development of appliances and equipment from inception to their present-day utility.

This device was made for Mr.
A.F. Godefroy, of St. Louis,
an internationally-known authority on beauty culture.
A Emerson-Blectric announcement of 1898 says "liwill dry perfectly the heavies
nit of hair in ten minutes."

ili be ma ld argum

used so rine indu

c the "d me 80%

cotton

of all ma

000 Us

butter.

cle Sam

180%

the lun

uildings

ermore, ministrat

argarine

this ye

DA in

res of

show to been abovever, the

nsumpti tion val

margan marked

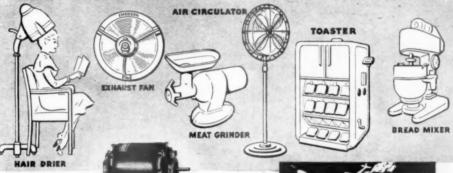
ed to 3

output d the n

illy marg

lier in ocked

hould v post about eft.



maker," you'll be better served by time-saving appliances, and equipment provided for your comfort, powered by Emerson-Electric motors.

enever you visit "the butcher, the baker, the can

The War Bonds You Buy Today Will Pay for the New Appliances and Comfort Conveniences You'll Want After Victory

The expanded war activity of Emerson-Electric has created a new and vastly enlarged field of manufacturing operations, particularly in light metals and plastics.... This—added to the experience of more than half a century in the precision manufacture of motors, fans, appliances, and arc welders—will be reflected in the Emerson-Electric products of the future.

"After Victory" manufacturers of new and improved motor-driven appliances and equipment will again confidently power their products with Emerson-Electric Motors, based on the latest conceptions of design, construction and efficiency.

THE EMERSON ELECTRIC MANUFACTURING COMPANY
SAINT LOUIS... Branches: New York . Chicago . Detroit . Los Angeles . Davenport

Emerson-Electric is now engaged in the produc-

tion of power-operated revolving turrets for United Nations' Bombers, electric motors for aircraft control, shell parts—also electric fans, motors and welders authorized by government priorities.

APPLIANCES . A. C. ARC WELDERS

EMERSON EMERSON ELECTRIC

23, 194 usiness Week • October 23, 1943



rine production falls off in the spring of the year when butter is most plential and least expensive.

eal

n con

an on

000,0

Bigger

orks-a

ole of

ion's

nscrij Follo

oweve le sam

rtain . Wa

INSCE

hich

cord

oard

settle eaply bigg

									1942	1943
Jan.		*	*		×		*		.35,109,000	61,984,00
									.33,015,000	62,982,0
Mar.		*	*		*	×		*	.30,700,000	70,045,0
Apr.									.28,659,000	43,120,0
May	×	*				*			.27,971,000	30,775.0
Jun.									.27,143,000	36,062,0
Jul.									.29,383,000	43,956.0
Aug.						*			.38,495,000	53,950,0
Sep.		*			*	*			.39,604,000	******
Oct.									.46,283,000	
Nov.									.47,635,000	*****
Dec.	×	8	4	*		*			.42,099,000	

• Trend of Sales—Tax stamp sales reflect the impact of ration values on civilian consumption even more directly, since government purchases naturally are tax-free. Also, the increasing quantity of margarine going into the FDA hoard is shown by the way tax stamp sales have been lagging behind total production since August of last year.

	1942	1943
Jan	35,864,000	53,311,000
Feb	31,800,000	50,984,000
	29,679,000	47,482,000
Apr	26,760,000	32,363,000
May	23,081,000	20,651,000
Jun	23,099,000	24,509,000
Jul	22,535,000	31,082,000
Aug		38,144,000
Sep	29,537,000	
Oct	35,403,000	
Nov	39,371,000	* * * * * * * * * * * * * * * * * * * *
Dec	42,151,000	

Just what the pattern of distribution is for this increased quantity of domestically consumed margarine has not been documented. But there is more than a little evidence that extensive new marketing areas have been tapped Oklahoma last spring repealed its license fees on manufacturers, wholesalers, retailers, and restaurants (BW-Apr. 3'43, p44).

• In the Dairy Stronghold—Even in dairy-conscious Wisconsin, 69 retail licenses at \$25 each (superimposed on the federal fee) have just been issued. The state's per pound tax of 15¢ plus the federal levy force grocers to sell margarine (usually priced from 16¢ to 25¢ a lb.) at 39¢ to 42¢ which almost cancels its price advantage over butter, selling at 48¢.

A bill already has been prepared for presentation to Wisconsin's next legislative session proposing the repeal of these and the state's other levies of \$1,000 on manufacturers, \$500 on wholesalers, \$25 on restaurants, and \$5 on boarding houses.

• No Temporizing—The margarine industry looks to possible repeal of the federal levies as a priceless precedent when it comes to fighting the battle in the state capitols of the nation later on, but it is decidedly nervous about a suggested compromise of repeal for the duration only.

eanuts to Petrillo

Musicians' chief is willing settle transcription dispute heaply because he has his eye bigger game.

51,984.00

sales tealues on

directly, naturally ng quan-

he FDA

x stamp

nd total t year.

1943

3,311.000

0,984,000 7,482,000

2,363,000

0.651,000

,509,000 ,082,000 3,144,000

ribution

domes-

las not

is more

ive new

tapped

its li-

holesal-

(BW-

ven in

retail

sed on

issued.

é plus

to sell

16¢ to

almost

butter,

red for

t legisseal of

vies of

00 on and \$5

ne in-

of the

cedent ttle in

er on,

out a

or the

1943

Painfully apparent to the entertainent industry this week was the reasong behind James C. Petrillo's willgness to accept, in behalf of the merican Federation of Musicians, an rement with the electrical transcripin companies which will net him less an one-tenth of the \$3,500,000 to 5,000,000 a year he had predicted. Bigger Game—The A.F.M. president

Bigger Game—The A.F.M. president stalking bigger game—the radio net-orks—and is eager to establish the prin-ple of an industry's contributing to the ion's unemployment fund—a prin-ple that is inherent in the electrical ascription contracts.

Following conclusion of a deal with ecca Records, Inc., and its transcription subsidiary, the World Broadcasting stem (BW-Sep.25'43,p100), Empire madcasting Corp. accepted the same intract.

Better Contract?—Four other transcriptions of the same of the same

Better Contract?—Four other transpition companies—Associated Music phishers, Lang-Worth Feature Proms, C. P. MacGregor, and Standard adio—have concluded another contract, tails of which had not been released my this week.

The new contract was understood,

The new contract was understood, wever, to contain terms substantially esame as those in the Decca contract. Inder this, the companies would pay a main percentage of sales to the union. Walter Socolow, attorney for the unscription companies, indicated that the new contract gives the four compairs a better deal than Decca got.

Only the transcription companies, hich make recordings for broadcasting, distinguished from the phonograph tord companies, have been involved the current National War Labor and hearings. And not all the transption companies have made their tack with Petrillo.

NBC Unit Absent—Conspicuously abnt from the new agreement this week
is the Radio-Recording Division of
the National Broadcasting Co., ostenbly waiting until phonograph record
spotiations occur. In the eyes of the
mon, acceptance by NBC would bind
the Radio Corp. of America's Victor
honograph record division to the union
matract because they are both subsidias of RCA.

Actually NBC, like the Columbia madeasting System's Columbia recordg division, shies away from accepting contribution principle.

contribution principle.

Gunning for the Networks—The reain is that Petrillo, having settled with



with these PAYROLL WORRIES!

When you put in a Form-Master System

Instead of copying details on three separate forms—employee's statement, payroll sheet and earnings record—one fast handwritten operation on the Form-Master completes all three at once. It cuts payroll posting time in half...gives you, as a by-product of your original entries, all the facts Governmental agencies must have.

The Form-Master will enable any clerk to complete the work correctly, without delay, and in a way that meets every State and Federal Regulation. No heavy outlay for equipment.

BRIEF EVIDENCE:

"...We estimate that your system is saving us approximately 50% of the time formerly used for writing payroll checks."

Brillion Iron Works, Inc. Brillion, Wisconsin

"... Have been able to effect major time and money savings ... Special operators are not required... Heartily recommend

its use..."
Empire Ordnance Corp.
New York City

This coupon will bring you details quickly. Mail it today!



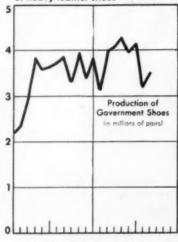
THE TODD CO., INC., Rochester 3, N. Y. Please give me the facts about the Todd Form-Master System and how it speeds quarterly reports, cuts payroll posting time, increases accuracy and meets all State and Federal regulations.

ulations.			
Company	Name		
Address_		 	
City			

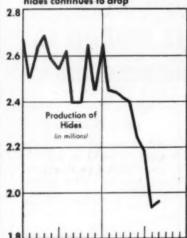
BW-10-23-

THE SHOE STORY

(1) U. S. stabilizes buying of heavy leather shoes



(2) But the production of hides continues to drop



the transcription industry for "peanuts," has made it clear that upon expiration of his contracts with the national networks next Jan. 31, the A.F.M. will demand inclusion of that principle for its cash value in future contracts.

A number of observers in the radio industry have put down Jan. 31 in their little black books as the beginning of another nation-wide musicians' strike if the networks balk at making payments to the union fund.

Shoes Stretched

OPA's revision of civilian allotments attributed to spurt in sales under rationing which has depleted dealers' stocks 25%.

When the Office of Price Administration announced last month that the new shoe coupon, valid Nov. 1, "probably" would have to last six months, it had little to offer as sugar coating for civilians just resigned to a quota of three pairs a year.

But a carefully worded 2,400-word statement accompanied OPA's announcement. It explained that between reduced leather supplies and manpower shortages only 25,000,000 pairs of rationed-type shoes a month would be available to civilians. The old rationing rate provided nearly 35,000,000 pairs monthly. This figure exceeded the production rate, but dealers' inventories could stand reduction then.

• Inventories Down 25%-Now, with retail inventories reduced about 25% since the beginning of rationing last Feb. 7, further depletion would reduce stocks below a safe operating level. And consumers were reminded that consumption had not yet fallen below press average consumption rates althou high income families have had to cur purchases.

More recently, consolation has be offered to style-conscious purchasers women's shoes: (1) Shoe stamps ren transferrable among members of a fi ilv. (2) extra coupons will be available for industrial workers and children, (3) allowances for "hardship" cases be more liberal.

o The Bottleneck-Since ... ormally the pairs of women's and three pairs children's shoes are sold for every pairs of men's shoes, family pooling almost as welcome to consumers a the War Production Board, To Wi a higher proportion of women's children's shoes sold means lower ther consumption, particularly sole ther-and that is the bottleneck.

Glum prospects for civilian shoe put can be attributed primarily to cause of the beef shortage-redu slaughter. To make things worse, hid of black market beef sometimes ne reach the tannery

• Imports Are Off-The other mai cause of tightened hide supplies i reduction in imports from South Ame ica. A considerable portion of Argent hides has been diverted to Great Br ain, (Whereas U. S. tanners used to 60% of the Argentine exportable h surplus and British tanners 40%, allocations have been cut to 30% the British share raised to 70% in last six months.)

earl ir Co

astly ram,

Alrea

gre

Here

thou

egan il and is ne

It w

st m

at wo or me on of We

here 1

ork a

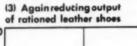
oduct

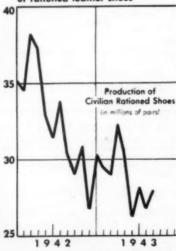
iles a

get or bo

To h

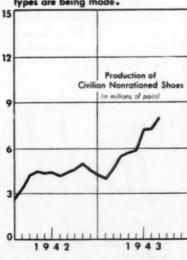
But leather and hide interests do n find the long-range view as depres as the immediate situation. There hope of increased supplies from be slaughter and importation. As a product of beef, the raw leather su should benefit from the 19% mere in 1944 slaughter now being urged up





y of the Census, Tanners Council, Bureau of Labor Statistics

(4) So more nonrationed types are being made.



(5) Finally, labor pinch



© BUSINESS #



"BODIES" for BOMBERS

ON OCTOBER 25, 1940—
ore than a year before
earl Harbor — U. S. Army
ir Corps officials notified us
f the urgent need for a
saly increased aircraft production pronm, and invited us to participate.

has been chasers of a far available dren, a

every

To WI

orse, hi

mes n

her maj

plies is

uth Am

Argenti

Great Br

ised to

table h

40%.

30%

1% in t

depressi There

from be

As a

her sup

6 mere

rged up

facture

23, 1

Already we were making Army trucks great number, completing a huge ak arsenal, building field ranges and et heaters, and making our first adies of anti-aircraft gun manufacture. Here was another urgent job. So inhout waiting to learn what aircraft would be assigned to us, we prosided 600,000 sq. ft. of additional plant are and, from our own personnel, ean to select engineering, metallurgial and manufacturing specialists for is new work.

It was just three months after our

OSES AND BODIES FOR BOMBERS (INSIDE AND OUT)

at we were notified our job was to ald nose and center fuselage sections at medium bombers including installain of complete control systems.

We immediately sent forty of our chaicians to a producing aircraft plant there these men did regular production out and observed, at first hand, the roduction methods then in use. Our mg background in building automolies and trucks, plus the experience we men gained, enabled us quickly get under way turning out "bodies" to bombers by quantity production whods.

To help acquaint us in advance with many kinds of material and operions involved, the Army Air Corps sent us a bomber nose section. Our engineers and master mechanics analyzed aircraft blueprints covering more than

OVER 14,000 PARTS
TO BE FORGED, CAST,
STAMPED, MACHINED
AND
PRECISION-FITTED



fourteen thousand structural parts.

Many of the metal parts presented entirely new working characteristics. They required elaborate heat treating processes for the extreme stresses demanded of them. They also presented new problems in the design and use of the dies needed to shape them.

Our production and purchasing specialists determined which parts we could subcontract to other companies. As the work progressed, orders for parts and materials were given to 2,255 subcontractors in 309 towns, in 29 states.

Aluminum forgings would be needed in large numbers by us and other manufacturers participating in aircraft production. Therefore, we were given the job of building an aluminum forge plant. We also prepared at our foundry to produce aluminum castings for plane manufacture.

Thousands of men and women had to be trained for this new type of work. Women were employed in large numbers and carefully taught drilling, riveting, machining and assembling of aircraft parts. Automobile sheet metal workers, body builders and trimmers

were shown how to apply their experience to the production of bomber parts.

The big nose of the bomber houses the Bombardier, Pilot, Co-Pilot, Navigator and Radio Operator. Nearly all controls are here, while the center section provides the bomb carrying space.

If you could look within these sections as assembly goes on, you would

IF YOU COULD LOOK WITHIN

see a bewildering network of wires and tubing as well as the structural skeleton of the ship. Every one of these 1,963 separate wires and over 1,000 feet of tubes—to say nothing of all the control mechanisms—must operate faultlessly.

In the production of "bodies" for bombers—a new field to Chrysler Corporation—again is demonstrated how our experience in peacetime car and truck production now is being applied to the production of war equipment in quantity... and on time.

ASP-

WAR PRODUCTS OF CHRYSLER CORPORATION

Tanks • Tank Engines • Anti-Aircraft Guns • Wide

Variety of Ammunition • Bomber Fuselage Sec
tions • Bomber Wings • Aircraft Engines • Anti
Tank Vehicles • Command Reconnaissance

Cars • Troop Motor Transports • Cantonment

Furnaces • Ambulances • Marine Tractors • Air

Raid Sirens and Fire Fighting Equipment • Marine

and Industrial Engines • Weapon Carriers • Gyro
Compasses • Powdered Metal Parts • Navy

Pontoons • Harbor Tugs • Field Kitchens • Bomb

Racks • Bomb Shackles • Tent Heaters • Aircraft

Landing Gears • Refrigeration Compressors • and

Other Important War Equipment.

In the production of this war equipment Chrysler Corporation is assisted by over 9,800 subcontractors in 956 towns in 39 states

Tune in Major Bowes Every Thursday, CBS, 9 P.M., E.W.T.

CHRYSLER CORPORATION

YMOUTH . DODGE . DE SOTO . CHRYSLER

[BACK THE ATTACK . . . WITH WAR BONDS]

A PREDICTION ABOUT

SPEEDI-DRI

OIL AND GREASE ABSORBENT

by
H. B. Barrett, President
BARRETT EQUIPMENT CO.
ST. LOUIS, MO.

We quote from a recent, unsolicited letter written by Mr. H. B. Barrett, President of Barrett Equipment Company:

"I thought I knew something about cleaning oily floors, but I'll admit that you showed me something that discredited my twenty-five years' experience with this problem.

"The remarkable action of SPEEDI-DRI is such that I predict it will eliminate other types of floor cleaners for oily floors as soon as it becomes sufficiently well-known."

Mr. Barrett's prediction is rapidly coming true. In thousands of war-busy plants and many safety-conscious industries, SPEEDI-DRI is doing better work more economically than any other product of its kind.

It is not only absorbing all and grease, but is providing a non-skid surface, brightening up the plant, improving morale (especially among women workers) saving shoes from all rot, protecting workmen's feet, saving manpower and scouring compounds.

Where else can you get so much for so little? Try SPEEDI-DRI in your plant. Prompt service from warehouse stocks in leading cities. Unlimited, priority-free supply.



Ask for demonstration . . . or free sample. If water or water-soluble oils are present, specify SOL-SPEEDI-DRI.



SUPPLIERS
East—REFINERS LUBRICATING CO.
New York 1, N. Y.
Midwest and South
WAVERLY PETROLEUM PRODUCTS CO.

West Coast
WAVERLY PETROLEUM PRODUCTS CO.
Russ Building, Sun Francisco 4, Calif.

cattlemen by the War Food Administration.

Reversal of South American hide distribution hangs on the decision of a group of government officials and American shoe and leather men now studying the British leather situation under the auspices of the Combined Production & Resources Board.

• Manpower Troubles—Come the hoped-for return of adequate leather supplies, shoe manufacturers will begin to feel the loss of the labor supply which has been leaving for war industry as shoe production has fallen off. Because of wage differentials, it will be hard to lure workers back into shoemaking, so that improvement in hide supplies will permit only a limited expansion in production.

Beyond over-all supply, government takings in military footwear are the controlling factor in civilian shoe production. A small reduction in leather-consuming army boots means several times that many shoes for civilians, so the assumed stabilization of government takings at just over 3,000,000 pairs a month provides perhaps the most comfort for the still far-from-baretoot civilian.

NO STAMPS NEEDED

Squeezed by New York's acute gasoline shortage, Rheingold Brewery is trying out a gas-generating wood burner as a last-ditch method of keeping its delivery fleet on the streets. Similar to South America's gasogenios (BW—Jan.9'43,p54), Rheingold's has special tanks to clean, cool, and filter the vapors before they reach the carburetor. More elaborate is a trailer-type charcoal burner (below), fueling the Chicago Tribune's test car which rolls on synthetic rubber tires made from alcohol derived from wood pulp waste liquors (BW—Jun.26'43,p94).

Without Redress

Emergency Court rejects
Safeway petition to set aside
price regulations on grounds of
OPA's procrastination.

Business men who have complained about OPA's procrastination in processing formal protests against specific price orders were infuriated last week. A decision by the Emergency Court of Appeals—set up by Congress to handle complaints against OPA (BW-Oct) '43,pl4)—made it appear that they have no legal recourse.

• Court Held Powerless—The decision, first of its kind, involved the request of Safeway Stores, Inc., that the court grant the company relief from an assortment of price regulations because OPAs delay in giving an answer to the protest constituted a "denial." The court ruled that it is not empowered to act on a protest until OPA has actually denied it.

deci

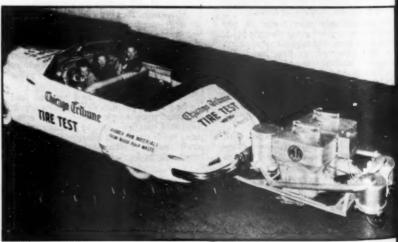
Hech

e fan

H

Since the court holds that the Emergency Price Control Act merely re-





uires OPA to take some action (not cressarily final) within 30 days after protest is filed, Safeway contends that, a hedging and stalling, the agency can tend to the contends that the contends the contends that the contends that the contends the contends the contends that the contends that the contends the contends t

225

rejects

aside

inds of

nplained in proc-

specific

st week. Court of

handle V—Oct.9

ncy have

decision

quest of

n assort. e OPA's

protests

art ruled

ict on a

rely 18

Two Steps Contemplated—Safeway is sady to take two steps: (1) an appeal the U. S. Supreme Court; (2) agitatin for passage by Congress of S. 238 hich has been pigeonholed in the enate Judiciary Committee. S. 238 and require OPA to take final action any protest within 60 days after it is

OPA argues that complainants may ention the Emergency Court for a rit of mandamus directing the price ministrator to take immediate action. the action is unfavorable, the case at then be appealed to the court for laction.

Hecht Case Review—More important an the Safeway ruling to OPA was a Supreme Court's decision to review to famous case against the Hecht Co., it Washington (D. C.) department once (BW—Dec.26'+2.p16). Issue at the inthe Hecht case is whether a nort should grant OPA a statutory function against a price violator who ted in good faith and has since ended his ways. OPA maintains that nee violation is so much against the ablic interest that an injunction should eganted whether or not violations are diberate.

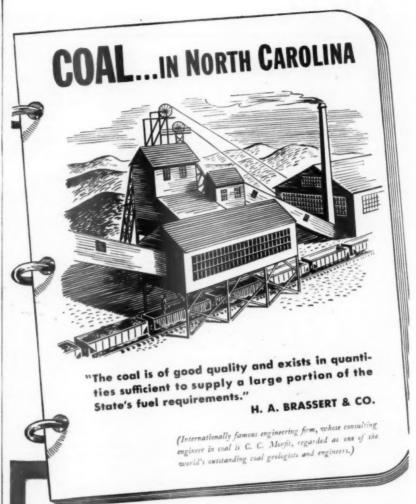
If the Supreme Court decides for PA, the agency thinks its hand will be eathy strengthened in enforcement accedings,

RESS SUBSIDY" RECAST

When Sen. Raymond E. Willis, public of the Steuben County (Ind.) Republican, proposed that the government appropriate between \$25,000,000 at \$30,000,000 for advertising warmed sales in the hard-pressed small likes and weeklies of the nation, there is a flood of highminded protest in metropolitan press (BW-Apr.17'43, 5). This week hearings began on a resed version of the bill presented by m. John H. Bankhead (Ala.). The incipal revision provides for distriction of the Treasury's fund among age papers as well as among the small les.

But the revision hasn't served to mee opposition. Most critics term the easure the beginning of government bidy of the press. They argue that the policy, once employed in the resury, could spread to other government agencies.

Under the revised bill, not less than if the fund would go to purchase space daily, weekly, semiweekly, and triently newspapers which serve committees that have a population of 1,000 or less.



For the past quarter of a century a wide variety of industries seeking a profitable locality in which to operate—a stable labor supply, low-cost hydro-electric power, mild climate permitting year 'round operation and nearness to consuming markets, have located in North Carolina. The industrial growth of the state has been rapid and consistent.

Today a hitherto unrecognized advantage is unfolding—North Carolina coal, a high quality fuel that does not have to bear the heavy burden of interstate freight rates, is available.

This coal is comparable with the well known Freeport coal, and a ton, if used as a coking coal, will yield 16 gallons of tar, and ammonium

sulphate, benzol and toluol in substantial quantities.

North Carolina's coal deposits, never heretofore adequately surveyed, have come to the forefront as a result of a recent survey made by H. A. Brassert & Co., of New York, consulting engineers for the State of North Carolina.

"It will require no further cleaning preparation other than hand picking on the belt to ship a good coal from this field...the coal will be a desirable fuel for domestic, gas metallurgical and other industrial uses," reports the Brassert organization.

Address correspondence to Commerce and Industry Division, 3162 Department of Conservation and Development, Raleigh, North Carolina.

NORTH CAROLINA

3. 1943

LABOR

Teamsters Balk

Truck drivers say truce is only temporary after walkout in protest over NWLB's delay in dispute on base pay.

Trucking companies in six southern states were making inroads this week into an estimated jam of 1,500,000 pounds of freight that had accumulated at shipping points during a seven-day strike of drivers concluded last week end.

• Trouble With War Agencies—The cessation of deliveries resulted not from a union-management dispute, but from labor dissatisfaction over Office of Defense Transportation rules and a National War Labor Board policy of not speeding up the consideration of a case because strike threats are made.

because strike threats are made.

AFL's Teamsters Union, which represents the drivers, has been agitating for a change in the methods of computing wages. The present system provides 2½ a mile compensation for drivers, and before ODT took over, 50 to 60 miles an hour traveling was possible. ODT regulations now limit truck speed—ostensibly to 35 miles an hour—and the union contends that this makes it necessary to drive 35% to 40% longer to receive the same pay. The union has demanded that NWLB listen to its story and order some

other method of wage computation into effect.

• Discontent Mounts—NWLB, with a crowded docket, has been unable to sidetrack many cases in order to hear the 'teamsters' complaints. Discontent has been growing for months, and there have been several quickly settled minor walkouts in mid-Southern shipping centers.

Last week's major shutdown started in Atlanta when 5,000 drivers rejected the no-strike direction of their regional officers. It spread rapidly through Georgia, Alabama, Mississippi, Florida, Tennessee, and Kentucky, while a parallel walkout occurred in the St. Louis shipping hub.

• Employers Sit Tight—The teamsters first filed a petition for a hearing with NWLB in November, 1942. Pending action by that agency, shippers have refused to meet union demands to raise the guaranteed base from \$30.24 to \$39.20 a week.

The union advised the drivers to await NWLB's decision, which will probably be retroactive, but Atlanta members filed an intent-to-strike notice under the Connally-Smith act. The government-sponsored strike vote was easily carried, but in an indignation meeting where Connally-Smith procedure was denounced as "confusing" and "full of red tape," an immediate walkout was decided on.

• War Shipments Halted – Swiftly spreading from Georgia into adjoining states, the outlaw stoppage was attributed to a "coffee shop" organization of ated by rank-and-file drivers in defiant

The War Dept., however, did no see that it mattered much who was he hind the strike as vital war reight up piling up. Working with unon official Army officers soon had a volunteer ser ice of union drivers wheeling brom castings into Chattanooga and canying other essential shipments requested by the War Dept.

• Army Seeks Action—Although no seeks action—Although no seeks in moving war material were caused by the strike, the America on the volunteer service. It interests with the U.S. Concultation Service at the employers to get joint action urging NWLB to speed up handling the drivers' case.

Going back to their wheels last we end, and working longer hours to cle the accumulated freight, the drivers described the resumption of work as "period of grace." They meant that federal agencies didn't come through with pay boosts, another walkout wonly a question of time.

Mediation Mired

Nonoperating employee rail wage case shows futility wartime arbitration; 4¢ risnow seems indicated.

The once "model" arbitration mach ery, which regulated union-manageme relations on the railroads so successfut that there has not been a major r strike since 1926, must now be consered another casualty of the war.

That is the direct consequence a the long-run significance of Preside Roosevelt's action in setting up a nemergency board to consider the wademands of more than 1,000,000 no operating railway employees. This was the second such three-man panel go over the nonoperating wage case, figures of the presented thirteen months ago.

• Special Board's Decision—The disponent wage rates was sifted through the claborate arbitration machinery provided by the Railway Labor Act, the was handed to an emergency board who was a wartime capstone atop the regular bitrational structure. This board is commended an 8¢-an-hour wage boar an award which, while making neith side too happy, was acceptable to be labor and management.

Under economic stabilization regutions, the award had to be O.K.'d Fred M. Vinson. Maintaining that award was inflationary, he rejected and the President was forced to appoar new board. The President also in cated that a 4¢-an-hour recommen



Unlike the truck strike in other major southern cities where union volunteers kept vital war goods moving, a parallel walkout in St. Louis compelled the War Dept. to draft women drivers to haul material to and from the local ordnance depot. Police cars convoyed the depot girls who handled ten-ton trucks although experienced only with jeeps and ambulances. 2200 PARTS 7-0-X REPORTED MISSING

You, too, may be making all-important it and parts" for war equipment that your sites never see. If so, this page, re-written 1 poster for your plant, may help them suize why every part, even the smallest, counts. It is us. The poster's free.

was beight worthcold cer ser brong

h no sar mate he Arm pendin tercede vice an

to cle rivers d ork as it that through

loyee tility o

mageme accessful major r be cons war. aence a

Preside up a no the wa

0.000 n

n panel e case,

he disp

rough !

oard whi

the regu

board i

age bo

ing neit

O.K.'d ng that the rejected to appo

Act, th

Port Chester, N. Y.

Jim's mother has a telegram today. It trembles in her fingers as she reads—"missing in action"... the rest is somehow blurred. Nothing now, but to wait... and hope.

In a war plant nearby, another telegram is read. Part 7-O-X is late. Work stops. Lacking a vital part, some jeep, plane, gun or tank may never reach in time the front where Jim was fighting.

Yes, thousands of tiny parts make up

the war machines that kids like Jim are counting on today.

Here at RB&W, making Empire Bolts and Nuts, it's our job to make each one accurately-threaded to tighten fast and grip hard, strong to take the battering of battle, fit for the faith our fighting men must place in it. Our responsibility, too, to make it on time, so that no part of ours "missing in action" will mean men "missing in action".

BEW Making strong the things that make America strong

ness Week • October 23, 1943



Women...in the WAC and WAVES, the SPARs, MARINES and WASP . . . are performing services essential to victory.

New services in the realm of financing are essential, too.

Victory can't be bought with money . . . but it can't be won

American industries are working miracles but there are still thousands of concerns that are not producing all they can ... as fast as they can ... probably because they lack adequate financing.

MORE CASH... MORE PROTECTION

Any manufacturer or wholesaler whose chief bar to greater production and sales is lack of operating cash, will get prompt and hearty response to a request for information about our new and broader financing services.

We can engineer a financing plan to make practical use of all your inactive capital dollars . . . and there are probably far more of them than you realize.

FINANCING, WITH LIMITED LIABILITY

We will set up a plan to put that inactive capital to work without red tape or restrictions, or interference with management, and with limited liability to you . . . one of the exceptional new features of our service you should certainly in-

If you want to do a bigger and more profitable business, let us analyze your needs and work out a plan for you.

Commercial Credit Company

Subsidiaries: New York Chicago San Francisco Los Angeles Portland, Ore.

CAPITAL AND SURPLUS MORE THAN \$68,000,000

Interesting color charts of ARMY, NAVY and MARINE insignia free on request.

tion would meet with his approval and the board is not considered to have latitude to award anything che.

• Now a Dead Letter-As a consequence the determination of rail wages by co lective bargaining, mediation, and arb tration is a dead pigeon, and there is m valid reason for utilizing it at the present time. Unless, through strike threats of other pressure, the rail unions can form the government to accord them excen tional treatment, their rates, like other labor groups, will be set by fint,

It already is apparent that one of the major postwar labor problems of the federal government will be to reestable effective railway mediation machinen and vest it with the prestige that ha been lost in the clumsy attempt to or erate it under wartime inflation control

Bonuses in Court

C.I.O.'s long-standing row with Mesta flares anew in suit charging incentives were left out in figuring time-and-a-half.

PREC

Into

Haas

tamil

progr

crimi

1.500

coal

Com

bor I

all or

count

in Ap

when

cials

tiatio

Apr.

pean • The

and t

trous

took :

to tha

ing a

not p

tions

the st

suppo Mesta

Bu

spong

it bac

enoug

and i

Early

driver

walko

every

work

Busin

Th

Another chapter in the stormy rela tions between C.I.O.'s United Steel workers of America and the Mesta Ma chine Co. of West Homestead, Pa., wa written into the federal court records Pittsburgh when the union brought million-dollar action accusing the con pany of short-changing its employees i payment for overtime work.

• Keyed to Incentives-Charging the Mesta violated the federal wage-and hour law in failing to include incentibonus earnings of workers in computing time and a half payment for work over 40 hours a week, and seeking to recov for its members an estimated \$500,0 in under-payments plus an equal amou as liquidated damages as provided by wage-and-hour law if time and one-ha is not paid on the proper basis, the union took its animus for the company to litigation.

Mesta has never signed a contra with the C.I.O. and has never had Never since an organizing drive under way in 1937 has the union be able to demonstrate that it re sented a majority of Mesta workers. T has not, however, deterred it from to ing to get the company to sign a C.I.

contract.

• Beginning of Trouble – When U. S. Steel Corp. entered into a writ agreement with the C.I.O. in Marc 1937, Mesta was invited to follow st Its president, Lorenz M. Iverson, fused, offering instead to bargain working conditions with the union its members only. Iverson offered post whatever terms were agreed to company bulletin boards. Playing

PRECARIOUS POST

oval and to have

equence s by col

and arbi ere is no

e presen hreats o can form

п ехсер

ike other it. ne of the establid nachiner that ha pt to op

n contro

urt

ng row

in suit

re left

a-half.

rmy rela

ed Steel

esta Ma

Pa., wa

ecords a rought

the con

loyees i

ing tha

vage-and

incentiv

mputin

vork ov

o recov

\$500.00

lamour

ed by th

one-h

asis. compar

contra

had

rive g

ion bee

it represents. The

from t

a C.I.O

hen t

a writte

Marc

low s

rson,

rgain

mion !

ffered

ed to

lying

3, 19

Into a hot spot-head of the Fair Employment Practices Committeemoves Malcolm Ross, deputy chairman, succeeding Bishop Francis J. Haas (BW-Oct.16'43,p100). Ross, tamiliar both with the committee's piogram of preventing racial labor discrimination and with its backlog of 1,500 cases, has worked in southern coal fields with the Friends' Service Committee and for the National Labor Relations Board.

100%

DEFIANCE BOND

NO.

BOND

WESTON'S

20%

INDEX

WINCHESTER

100%

FIANCE INDEX

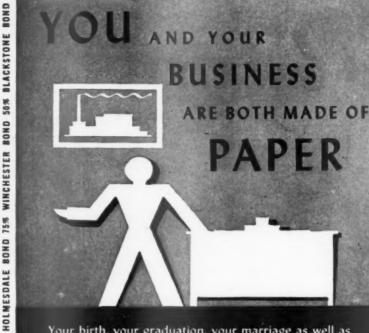
all or nothing, the C.I.O. spurned the counteroffer and called a sitdown strike in April of that year.

The sitdown ended after five hours when Iverson agreed to meet union officials and talk the matter over. Negotiations accordingly continued until Apr. 20, when Iverson left for a Euro-

pean business trip.
• The Tide Turns-Before he returned and talks could be resumed, the disastrous Little Steel strike of 1937's spring took some of the fight out of C.I.O. Up to that point, the union had been claiming a majority, but the fact that it did not petition for a National Labor Relations Board election suggests that losing the strike in the mills probably cost it support in the fabricating plants like Mesta.

But C.I.O. didn't throw in the sponge. Day-by-day organizing brought it back to a point where it felt it had enough strength to shut Mesta down, and it called a strike for Dec. 8, 1941. Early that morning, union sound trucks, driven into position to direct a first-shift walkout, boomed instead a message that every worker was to stay on the job, work harder, forget the strike. Japanese

BYRON WESTON CO. LINEN RECORD, EXTRA NO. 1 100% ANCE LEDGER



Your birth, your graduation, your marriage as well as the ownership of your property and all the important facts of your life are recorded on Paper - and, the chances are, on WESTON paper,

Many facts of your business, too, are matters of vital record. They also need the protection of WESTON

Your supplier recommends WESTON cotton fibre content papers for every business record that is worth keeping.

You need only remember this - if it's worth keeping, keep it on a WESTON paper.

> Wartime Demands for papers of WESTON quality and endurance

are exceedingly heavy. They include map, chart, record, form, instruction book and other special service papers for army, navy, government, lend-lease and war production work.

BYRON WESTON COMPANY Makers of High Grade Papers DALTON, MASSACHUSETTS

E EVERY WESTON PAPER IS A COTTON FIBRE CONTENT PAPER

Business Week - October 23, 1943

WAVERLY LEDGER 75% CENTENNIAL LEDGER 75%

WINCHESTER LEDGER 50%

BLACKSTONE LEDGER

25%

WESTON'S MACHINE POSTING LEDGER AND



• In mechanized warfare, salvage of damaged equipment is second only to salvage of human lives. Behind the lines on every front, mobile repair-shops handle parts, pieces, and patches ::: fix tanks, planes, trucks, and guns so they will be fit to fight again.

Pedrick precisioneered piston rings are in the air compressors that are part of these amazing machine-shops-on-wheels. Pedrick rings have long been original equipment in the country's leading air compressors, delivering maximum cubic feet of air per minute through years of uninterrupted service.

Correct and lasting tension, precise dimensions, absolute flatness, distinguished metallurgy... these are among the characteristics which make Pedrick piston rings precisioneered, make them stand-outs in performance and long life, whether in the fighting, transporting, or maintenance equipment of our armed forces, or in the many kinds of power units which keep our essential domestic economy running.

Through these war years, Pedrick's great store of know-how in piston ring design and manufacture is contributing notably to the nation's war effort... will contribute just as notably to the vast power needs of a nation and a world at peace. WILKENING MANUFACTURING CO., Philadelphia and Scranton, Pa. In Canada: Wilkening Manufacturing Co. (Canada), Ltd., Toronto.



IT ISN'T OVER, OVER THERE . . . SO KEEP ON BUYING WAR BONDS HERE

planes, the day before, had begun a bigger war at Pearl Harbor.

• Continual Wrangle - Since then, Mesta and the C.I.O. have, for the most part, confined their feud to argument. A few months ago, there were two st. down strikes, unauthorized by the union, which grew out of discontent over wage rates, but until the suit was filed last week there were no important wartime developments.

wartime developments.

Frank Burke, union district director, claimed the company recently paid out to incentive workers "an extra bonus which was supposed to make up to them what it owed them from May of this year." But the union members "do not intend to permit the company to keep the money which it owes them because of the company's violation prior to May 1, 1943."

Incentive Guides

Regional labor boards and employers get a cue from NWLB on what an incentive system must do to win approval.

Members of the twelve regional war labor boards are studying, and employers will study, a new Washington document which finally sets National War Labor Board policy on incentive wage-payment plans. Lacking such a policy, the regional agencies have been holding up practically all applications for permission to change from straight-time to incentive systems. Employers have had no cue as to what standards their incentive pay proposals must meet.

• Seven Points—Now NWLB Vice-Chairman George Taylor has put NWLB's directions in seven points:

(1) The basis of any incentive plan is whole-hearted acceptance by those directly affected. The board will not order an incentive system in a dispute case. It will act only upon voluntary submissions made by the employer and joined in by a union where it represents the employees.

(2) Full responsibility for the technical details of a plan and its adaptability to the needs of each situation rests with those who submit the plan.

le

C

5

n

(3) The proposed plan should not provide incentive wages to make up for wages paid below the stabilized level of Sept. 15, 1942, as defined by the National War Labor

Board.

(4) The proposed plan should not involve wage decreases or wage increases, nor should it increase the general level of production costs contrary to the Act of Oct. 2, 1942, or the directive orders issued thereunder.

(5) Full data should accompany each submission in order to permit the board to appraise the basis upon which a production standard has been set and also to appraise the importance of the variable factors previously enumerated.

(6) Provision should be made for a peri-



devices helped make air transport dependable.

Today, through the medium of the vacuum tube, air travel is as positive a means of transportation as the motor car and railroad. Like the center lines on the boulevards, radio beams form the highways of the skies, leading aircraft to port as surely as rails lead the transcontinental limited to its destination. Then like the switchmen in the railway yards, instrument landing guides the plane to

rest on the airport through the densest of fogs and storms.

Next to the development of the plane itself the electron vacuum tube is perhaps the greatest single contribution to man's conquest of the air.

The Eimac 450T Tube which is seeing service in the ground stations of the major airlines is a high mu triode having a plate dissipation of 450 watts.

Vacuum tubes are the very heart of radio communications, cross country beacons and instrument landing devices. Eimac tubes are the established leaders

in this field. First choice of all the major airlines, first in the new developments in radio, first among the leading electronic engineers throughout the world.



EITEL-McCULLOUGH, Inc., SAN BRUNO, CALIF. Plants at: Salt Lake City, Utah and San Bruno, California Export Agents: FRAZAR & HANSEN, 301 Clay Street, San Francisco, California, U. S. A.

begun a then, the most gument two sitby the scontent suit was nportant director, paid out a bonus to them of this "do not to keep because to May

es s and **NWLB**

ystem

nal war plovers cument Labor ayment the reing up permisto inhad no entive-

Vice-

s put ints:

plan is directly

incenct only

by the here it

chnical to the

se who

t pro-

wages pt. 15,

Labor

nvolve

should

uction

1942,

h subto ap-

action

praise previ-

peri-

1943

er.

Before

planning POSTWAR policies

read Slichter's analysis

JUST PUBLISHED

PRESENT SAVINGS AND POSTWAR MARKETS



By SUMNER H. SLICHTER

Lamont University Professor, Harvard University

Next to the spectacular increase in production, the rapid piling up of liquid assets is the most noteworthy economic development of the time. As a framework of reference in considering many postwar policies, Sumner H. Slichter has analyzed this trend and its probable projection for the next three years, with conclusions of vital interest to you.

\$

What is the volume of savings likely to be when the transition to a peacetime basis begins to take place? Will these funds be an inflationary threat? Will they have any effect on reconversion financing? How will they affect the demand for goods? Is the extension of "controls" advisable? How will production and marketing policies be affected? These and many related questions may be approached more rationally against the background of careful, reasoned analysis given in this book. The author compiles a thorough and practical framework of figures and adds his comments on the trends disclosed; significant data and conclusions to aid the business man in his postwar thinking.

Order from your bookstore or

McGRAW-HILL BOOK COMPANY, Inc.

330 West 42nd Street

New York 18, N.Y.

odic review by the National War La Board of the results achieved under the a as well as of the fluctuations which have curred in the variable factors. It should recognized that significant changes in variable factors may require a change in production standards applicable in the in-

(7) Since the basic purpose of the intive plan is to effectuate a greater product per man-hour of work, each plan should accompanied by an estimate of the effect the plan upon the company demand manpower, and the company should me periodic reports to the board as to man-hoper unit of production.

Case for the Navy

Constant labor troub interrupts production at Cram shipyard; sponsoring congres man asks Navy to take over.

"One thing is certain. We cam afford a repetition of the Brewster site

tion at Cramp's."

This statement, coupled with a suggestion that the Navy consider the suggestion that the Navy consider the suggestion that the Navy consider the suggestion at the cold World War shipbulling plant (BW-Aug.17'40,p17). But statement and suggestion came from of the key sponsors of the reopening the yard two years ago-Rep. Micha J. Bradley, congressman from Pennsy vania's third district, in which the pais located.

• Basic Issues Still Unsettled-Lambda, 15,000 members of Local 4 Industrial Union of Marine Shipbuling Workers of America (C.I.O.), a turned to work after having been of the job since the previous Friday. The strike-latest in a long series of lab troubles at the yard—was over. But no body had any illusions that the underlying dissension was even close to be presolved.

In fact, the union gave the management just one week for settlement all grievances. It also voted to reque an investigation of the shipyard management by the Senate's Truman committee investigating the war program charging general incompetence in production and in the handling of labs and violation of the Wagner act "refusal to meet with the local's executive board."

How It Started—The whole thing began when 2,000 outside workers faile to return to work from their lund period on Friday, Oct. 15. Unit spokesmen said it was no strike, the men were merely knocking off to bad weather, as is their custom.

The next morning, however, all wo stopped, and demands were heard for

Rain Maker

best, too, are Baldwins—these free discharge regulator alves that permit the release of excess rainfall impounded a flood control reservoirs. Thus, at will, man waters the arth and turns desert valleys into food bins for America. Baldwin equipment occupies an outstanding place in he water power field. Its products range from huge hymulic turbine installations to water wheels with fractional orsepower capacities. These, in addition to check valves, urge suppressors, and other equipment for regulating the low of water, represent the contribution which Baldwin is taking to this field.

Baldwin equipment is used in the production of airlanes, automobiles, tires, building materials, plastics, ships and a host of other products. Baldwin, as a builder of locomotives, is maintaining its century-old record of service to the railroads. Over the Baldwin plants flies the Army-Navy "E" for the production of tanks, ship propellers and other ordnance materiel.



The Baldwin Locomotive Works, Philadelphia, Pennsylvania: Locomotive & Ordnance Division; Baldwin Southwark Division; Cramp Brass & Iron Foundries Division; Standard Steel Works Division; Baldwin De La Vergne Sales Corp.; The Whitcomb Locomotive Co.; The Pelton Water Wheel Co.; The Midvale Co.



War Lib ander the pi blich have blich have lit should anges in a change in the ince of the

trouble transcongresse over.

We cam wster sit with nsider t lding Co lly empl shipbui e from a opening p. Mich n Penns h the ya ttled-La Local 4 Shipbui C.I.O.), been (iday. T s of lab r. But p the und e to beit

e manag

lement

to reque

yard ma man co

program ce in pr of labo

er act

al's exec

thing b

ers faile eir lund

, all w

23, 19

Baldwin serves the Nation which the Railroads helped to build

liness Week • October 23, 1943



Tough Problem + Stainless Steel = Product Improvement

What would you do if you had the problem of giving longer service life to a special poppet valve for a giant Diesel engine? You would have to look for more than ability to maintain high physical properties at elevated temperatures.

And that's exactly why the manufacturer of poppet valves like this selected a Carpenter Stainless special type valve steel. For this steel does more than resist high temperatures—it provides positive protection against sulphur and hot exhaust gases. Then too, shipment after shipment arrives at the valve plant free from flaws that would

cause rejections. That kind of uniformity helps speed production and reduce costs of close tolerance parts.

When you want to apply the advantages of Stainless Steels to your new or redesigned products, consider Carpenter your general headquarters for useful information. We can help your engineers build more "user advantages" into your products. And for printed data to get the most from Stainless Steels, ask for a copy of our new 98-page data book. A note on your company letterhead will bring you a copy.

THE CARPENTER STEEL COMPANY 140 W. Bern Street, Reading, Pa.





LADY WITH LINES

Initial lessons for rookie blueprint readers are given snap by Billie, diaphanous creation of blueprint experts at Doak Aircraft Co., Torrance, Calif. With Billie's petite three dimensions alluringly displayed, the drawing is studied more intently than ordinary mechanized drawings, hence stimulates faster absorption of blueprint principles by green hands—or so the theory goes.

reinstatement of Frank J. Lynch, 25year-old member of the local's executive committee, who had been fired for instructing a \$1.20-an-hour burner to stop doing work ordinarily performed by a chipper who, on piece work, makes up to \$1.80 an hour.

• Earlier Walkout Recalled—The Lynch case brought to a head an issue of long standing between the company and union men. It recalled last July's walkout of 85 men over the dismissal of 18 in a controversy over work and wages of subforemen.

There have been numerous reports of impending strikes—which never materialized—ever since the yard's reopening in October, 1941. Workers have been complaining about loafing in the yard, materials delays, and poor work allocation. Shipping men have joined the criticism with derogatory remarks about the yard's production.

• Several Management Shifts—There have been a number of changes in Cramp's management in the past three years. The first president, James Reed, died shortly after operations started. He was succeeded by Admiral William G. Duboise, who since has been named chairman of the board, and was succeeded as president by the incumbent, Henry E. Rossell.

ay Won't Bounce

Boilermakers' union chief Portland defies international esident on ouster; other local aders rally behind him.

If the International Brotherhood of dermakers is to get rid of Tommy as head man of Local No. 72 at tland, Ore., it begins to look as pugh the union would have to go to ut or call out the marines.

He Won't Budge — White-haired mmy this week continued as the illermaker boss, in defiance of an ster order issued Oct. 11 by the intertional pr ::nt, J. A. Franklin.

"It's just "e a checkers game. It's er move; there's been no charges premed against me," insists Ray whose ion in the last 2½ years has mushomed from 500 to more than 45,000 ar plant workers.

lueprint

llie, dia

experts

e, Calif.

ensions

wing is

ordinary

ueprint

so the

ch, 25-

recutive

for in-

to stop

d by a

es up to

Lynch

of long

y and s walk-

l of 18

ages of

reports

er ma-

eopen-

have

in the

ork al-

ed the

about

There

ges in

three Reed.

d. He

m G.

amed

SHC-

bent.

1943

In some respects, the attempt at disisal is just what the doctor ordered far as Ray is concerned. Boilermaker embers and other A.F.L. unionists ho recently were damning Ray now we been impelled to rally round him. If the international can come in here declared to the concerned and of us," union bigwigs reason and they suspect, further, that the impuliders are trying to get Ray mough the international.

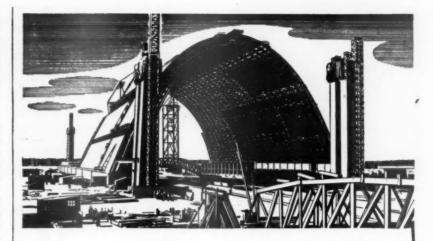
What Ray Says—In his turn, Ray cuses the international of wanting to introl the 400 to 500 delegates the ordand local would be entitled to send the boilermakers' convention next awary. Other than that, he refuses

be specific.
Ray, who draws \$200 a week and menses, says he is willing to stand to reelection just as soon as a court ction, instigated by a dissident group hich claims to be the duly elected atte of officials, is settled after Nov. 2. his is a drastic reversal, because Ray and other officials have heretofore injusted they were frozen in their jobs

Right Side of Ledger—The blunt ishman's stock never has been higher. keently a Portland accounting firm impleted a 5½-month audit of his woks, going clear back to the time he wok the job 13 years ago. It was found that Ray had handled more than \$3,00,000 in that time, and that the mion owed him \$45.

ore than two years ago.

The international, through its viceresident, Otto W. Mursener of Saltake, who has been in Portland since imary, last week discharged the union's governing committee of 21. The body, including Ray, was named last Feb. 14 when court action was threatened. The members were fired when each refused



Flame-Proofing Permits WOOD To Invade New Postwar Markets

YOU'VE SEEN this blimp hangar in the news: "Largest Wood Structure in the World." Many like it are scattered along our coast lines, housing the blimps that are making things hot for Axis submarines. But did you know that these wood structures are safeguarded against another enemy, Fire?

MINALITH FIRE RETARDANT protects that wood. It will not catch fire. It will not spread fire. It ceases to glow soon after exposure to flame. Fire would be confined to local areas, therefore, and such flame-proofed structures would maintain their load-bearing strength without sudden collapse.

PRESSURE IMPREGNATION with Minalith* fire retardant makes ordinary wood flame-proof. American Lumber & Treating Company employs the same scientific methods, the same accurately controlled equipment, as is used in making Wolmanized Lumber*—the wood that's highly resistant to decay and termite attack.

FOR POSTWAR USE, we now offer you two types of treatment that enable you to retain all of the usual advantages of wood construction—lightness, ease of erection, strength, resilience. We add flame-proofing with Minalith fire retardant or resistance to decay and termites with Wolman Salts* preservative, according to your needs. We'll gladly give you more details on either treatment. Write American Lumber & Treating Company, 1656 McCormick Building, Chicago 4, Illinois.

*Registered Trade Marks

"Alloyed" FOR ENDURANCE WOLMANIZED LUMBER



N THIS period of war emergency, when American families must care fully guard the value of their homes and keep them from "running down," Celotex is performing an outstanding service.

Celotex Triple Seal Roofing Products are available for roof repairs and roof replacements.

Celotex Insulation Materials can save precious fuel-cut fuel costs as much as 40%.

Celotex Gypsum Products-Wallboard and Plaster-are available for repair and remodeling work.

Your Celotex Dealer is a good man to know.





Once they've dug in, "Unbrako" Self-Lockers with Knurled Points require no further reinforcement - refuse to yield to the onslaught of vibration which

causes ordinary set screws to loosen and fall out. Think of the time and money you could save by using them in your plant - then send us your order.



Self-Locking HOLLOW SET SCREWS Sizes: No. 4 to 11/2" diameter.

Knurling of Socket Screws originated with "UNBRAKO" years ago.

OVER 40 YEARS IN BUSINESS

Standard Pressed Steel Co.

JENKINTOWN, PENNA. BOX 598 Branches

- Detroit - Indianapolis - St. Louis - San Francisco

to abandon Ray until charges had been

• No Deference to Fact-Ray has incurred many enmities within his own union and in the international. His refusal to hold elections, and his judgment in building the union's quarter-million-dollar "marble palace" have been ques-tioned. He once tried to thwart the admittance of Negro workers, and he has refused to compromise any provisions of his closed-shop contracts. And, on sev-eral occasions, he has accused the management of the three Henry J. Kaiser yards in the Portland area of hoarding at least 20,000 unnecessary workers.

Total Job-Freeze

Changing of war jobs is tightened up all over nation by issuance of WMC minimum standards for hiring.

An estimated 25 million workers went to work this week under a "soft-freeze" job stabilization plan ordered into nation-wide operation by the War Manpower Commission. Affected: everybody in an essential or locally needed activity. Objectives: to eliminate turnover in such activities, reduce unnecessary labor migration, direct labor where it is most needed.

• Required for Transfers-The plan sets minimum standards for all areas (with

tougher regulations already in effect such woefully tight labor areas at West Coast, Buffalo, and Louisville

nt of

come

as no

nity

agric

nagric

x we

ust s

DOI

Cle

ma

lark

MC

Under these standards, a joba cant who has worked in another tial or locally needed activity in preceding 60 days may be hired if he has been referred to the job by United States Employment Service he can present a statement of avail ity from his last "essential" emploor, under certain circumstances,

• When "Available"-The stateme availability should come from the vious employer if the worker has discharged, laid off for seven day more, would undergo undue harde if his employment were to continue has held employment that failed meet pay levels or working condition established by state or federal laws regulations.

USES may issue the statement if worker is entitled to one and his vious employer has failed to issue or has failed to comply with War Ma power Commission regulations. Al USES may refer him to the new if he has been employed less than f time or at work that did not utilize highest recognized skill for which the is a war need-and the new job make better use of him.

• USES Only-Specific USES referr to the job-not just a statement of ava ability from a previous employer-is e sential if the applicant is being him for work in a critical occupation or h



MARCHING WITH JOHNNY

At Newark, N. J., a C.I.O.-sponsored musical extravaganza opens Nov. 22 to portray labor's war effort, its stand on national affairs, and its subtle bid for public and military goodwill. The show-"Marching With Johnny"is the brain-child of Leonard Keller, 33-year-old musician turned war worker, who conceived it while inspecting crankshafts (left) at a Detroit Cadillac plant. With \$50,000 worth



of approval from the C.I.O. War Re lief Committee and the unofficial blessing of Washington officials, th show went into rehearsal this week under a professional director, Philip Loeb (right, standing). Unlike the La dies Garment Worker's Union show "Pins and Needles," which grossed more than \$1,000,000, the C.I.O. on will have a broadway cast of abou 75. Profits on a nation-wide tour of legitimate stages will finance a swing of Army camps.

dy in effect nt of availability indicates that or areas a come from a critical occupation; 1 Louisville as not lived or worked in the nity for 30 days; if his last job s, i joba agriculture and he is applying another e ctivity in nagricultural work lasting more be hired weeks-in which case a reprethe job by e of the War Food Administrant Service ust sit in. nt of avail ial" emplo

or Lending

statement

rker has b

even days

due hards

continue at failed ig conditi

deral laws

ement if

and his n

to issue h War Ma

tions. Al

he new

ess than f

t utilize

which the

v job mak

ES refem

ent of avai

lover-is

being him

ation or h

War Re

unofficia

cials, th

his week

r, Philip

e the La on show,

O. opu

f about

tour of

a swing

, 1943

Cleveland concern passes orarily unneeded workers to its neighbors, but the may be a disappointment.

av off, yet hold onto, employees ght labor market while retooling partial product conversion, Cleve-Automatic Machine Co. is lendworkers to its competitors for ower. End result of the experiwas yet to be seen this week as the my installed new jigs and fixtures ert some of its output facilities automatic screw machines to inal lift trucks which it will produce

lark Equipment Co.
IC Approves—When the changecompleted early next year, Cleve-Automatic figures it will need all 200 workers it had at peak operaa few weeks ago, plus another 200. while, about 250 would be und. So the company is lending to other plants-with the sanc-of local War Manpower Commis-

majority of the layoffs were placed half-dozen other plants, with the standing that they could be reon two weeks' notice. The workmed out, however, may stay in new jobs-if they choose. Until recall or refusal to return, they all seniority, vacation, and other Cleveland Automatic em-

Released Outright-Among not placed through the lend-lease a few quit and a few were inducted amed services. Others were laid off aditionally, to find their own jobs. he National Assn. of Machine Tool ers cites another, but unsuccessexample of efforts to promote lothe best jobs possible for matool plant workers laid off. When Norman Machine Tool Co., gfield, Mass., released 400 emplants needing help.

Missing 369-Out of the 400, 31 presented themselves for jobs here. What became of the other ers believe they went back to their is, took vacations, then took new in neighboring towns.

is anybody's guess, but local ob-

SPEEDING "Walkie Talkie" Radio Production for Uncle Sam

- with specially tooled Delta equipment

for cutting quartz crystals . . .

This special production line built from standard 14-inch Delta Drill Press heads, columns, and tables - typifies the ingenious use of standard low-cost Delta machines by war industries from coast to coast.

Diamond saw blades are used to cut the crystals from large pieces of quartz - an exceedingly hard material. The specially tooled Delta machines, each equipped with hydraulic feed, make a smoother cut with fewer grooves - thus greatly reducing the time necessary for lapping, and substantially speeding up production.

Stock model Deltas in units, batteries, and special setups fre-



quently make large, costly special machines unnecessary - giving you a simple, safe, satisfactory production line that is a credit to all concerned. Investigate! Write for "Tooling Tips" and new Delta catalog.



pon and mail today
UFACTURING CO. e., Milwaukee 1, Wis.
al issues of "Tooling Tips" g of low-cost machine tools.
Position

() State





employment service

• EXECUTIVES SEEKING \$2,500 to \$20,000 positions may contact employers through our confidential services. Estab. 28 yrs. National Business Bourse, 20 W. Jackson, Chicago.

. wanted-pattern work

• OLDEST ESTABLISHED pattern and machine works on Long Island can take on additional wood and metal pattern work. Eppenbach, Inc., 4510 Vernon Blvd., Long Island City, N. Y.

distributors wanted

• MANUFACTURER of new, essential Time and Labor saving Device, needed by Industrial Plants, Engineers, Architects, Municipalities and Educational Institutions for Defense and post war activities, desires to appoint capable Sales Organizations as exclusive Factory Distributors in various territories. Our production factilities permit prompt deliveries of this essential unit. Box 360.

"clues" information

"clues" ada are published as apace is available, usually within two or three works of receipt. Closing date on publication issues, Thursday of preeding week. Rate: 50 cents a word; \$2.50 per line. Minimum \$5. Boz number counts as 2 words. Address replies: e/o Business Week, 330 W. 42nd Street, New York 18, N.

TWA Turns South

Airline, heretofore only a domestic operator, buys 221/2% of TACA, pioneer air express carrier in Central America.

All the airlines have been talking about postwar international expansion, but Transcontinental & Western Air is doing something about it. TWA, heretofore prominent only as a domestic operator, has purchased a 221% interest in Inter-American Airways, S.A., holding company of Lowell Yerex of TACA fame (BW-Oct.12'40,p62).

• No Use in Waiting-Transcontinental & Western has had its application in for lines to London, Paris, and Hawaii. But while these hung fire with the great sheaf of those filed with the Civil Aeronautics Board by competitors, TWA turned south.

Inter-American Airways has four TACA (Transportes Aereos Centro-Americanos) subsidiaries serving Nicaragua, El Salvador, Costa Rica, and Honduras. And parts of its holdingsin addition to those sold to TWA-will be bought by Time, Inc., and Adams Express Co. (an investment trust since it dropped out of express years ago), although these two will have smaller shares than TWA.

· Hughes' Interest-An indirect participant will be Howard Hughes (the oildrilling tool and movie impresario who now is a partner of the many-faceted Henry Kaiser in manufacture of flying boats) since Hughes owns about 40% of TWA's shares and is prominent in the

airline's affairs.

Despite TACA's nondescript equipment (among its planes are 15 trimotor Fords, 9 single-engine Bellancas, 3 Lockheeds, 3 bimotor Condors, and 11 of miscellaneous makes), the company has done much pioneering in transport of air cargo in Central America (BW-Oct. 31'42,p58). The concern has, as a result, pretty much sewed up the business in its territory, the 1937-41 figures (latest available) showing that TACA lines carried 93,000,000 lb. of express.

• Ramified Interests-But Inter-American hasn't limited its interest to Central America. It owns, for example, a 50.9% interest in a Brazilian line (in which British nationals have a 40% holding while TWA has the remaining 9.1%). A 40% interest is held, as well, in West Indian Airways Corp. (British controlled). Moreover, Inter-American has entrances to the U.S. since a CAB ruling last June gave both the Brazilian and the El Salvador subsidiaries, as well West Indian Airways, the right of time entry into Miami.

The company now has outstand 76,152 shares of a preferred issue 380,760 shares of common. Other little information is available cond ing its finances, although reports in cate that 1942 earnings ran aro \$350,000.

be

rti

In

o Exchange of Shares-According present plans, Inter-American inter to change its present authorized cap to one class of stock-2,000,000 sha of a new \$1-par common. When has been done, a portion of the la will be issued in exchange for the p ent stock, on the basis of four newsh for each share of old preferred and new share for each five old common

When this exchange has been or pleted, it is said, Lowell Yerex will 329,010 shares; TWA 225,000; Ad Express 41,665; Time, Inc., 20,835; Air Investors, Inc., 16,665. It is the planned to sell to the public the 366.0 odd shares necessary to bring the ostanding stock to 1,000,000 sha through the Wall Street investment house of Schroder, Rockefeller & • Bypassing the CAB-According to ports, the agreement covering TW purchase of Inter-American shares s cifically provides that all times Yeres to hold slightly more stock in the copany than TWA. The transaction, a result, apparently is not subject to proval of CAB, though CAB, of cour must give its O.K. before a TWA m can sit on the Inter-American board.

Of the other big domestic airlin both American and United now cont properties serving Mexico. Otherwi none has routes extending south of border, though several lines, includi Eastern and Braniff, have application before the CAB for permission to op ate in the area which is now served the TACA group.

THE INSURANCE MARKET

In trying to sell insurance today, is t agent handicapped because the mark for many forms of such protection is ready at the saturation point? Not cording to a survey conducted by t Curtis Publishing Co., in the planni of which a number of prominent inst ance companies cooperated.

The intensive study, involving inte views with 2,374 men (living in eig cities and towns east of the Mississip and representing a cross section of i come levels), actually disclosed, for e ample, about half carrying no accide or health insurance. Some 90%, als did not carry any kind of personal liab

surance and two-thirds lacked aubile collision policies.

special interest to those in the in-e business, however, is the fact the survey revealed considerable sion in the minds of many of those did hold policies as to the actual of the fire or casualty companies ing them.

stomers in general felt favorably their insurance companies, because they thought them well ged. Almost 50%, nevertheless, ed the government should regulate

ries, as wel

e right of

as outstand

ried issue

n. Other

lable conc

reports i s ran aro

rican inte orized cap 00,000 sha

. When of the la

for the pour new sha

erred and

d common

the common as been control of the common of

ing the o 0.000 sh

investme eller & C ording to ring TW shares s

nes Yerex

in the co

saction, a

bject to

3, of cour TWA m

n board.

tic airlin

now cont

Otherwi

outh of

, includi

pplicatio

on to op

served

KET

oday, is t

he mark

ction is

? Not

ed by

planni

ent ins

ring inte

g in eig

1ississin

ion of i

d, for e accide 0%. al

23, 194

rtial Peace

Investors Syndicate and enter consent decree on of 16 commission charges; r two come up Nov. 10.

tilement of 14 of the 16 charges ed by the Securities & Exchange ission against the Investors Syne and two affiliated investment nanies (BW-Jul.17'43,p100) was ed in a consent decree this week. Minneapolis investment group is agreeing, however, to the SEC's albons of "gross misconduct" and s abuse of trust"; these come up hearing Nov. 10.

ne Points Covered-Points disposed the consent decree include offern exchange of securities without apal by the SEC; offering of securities ne their registration with the SEC; ing of securities without an acnying prospectus that meets SEC ements; making certain represenns about securities, such as comon with war bonds or the implicathat they are certified or approved EC; making repurchase agreements ting the groups own securities; reing to fraud.

westors Syndicate points out that, in ng into the consent decree, it does idmit it has been guilty of any of practices covered. In fact, E. E. b, head of the investment compadeclares the net effect is simply "to in the defendants from doing those which are already substantially bited by the federal securities and stment company laws and which e companies do not intend to do irective of the entry of this decree."

Avoid Litigation—Crabb points out this companies felt it was proper to ive at a settlement on a fair and contive basis rather than proceed with wsuit which at best would be proged, expensive to the companies, and urbing to security holders." And he mphasizes that solvency of the comies has not been questioned.

is to the "misconduct" and "abuse"

749 LETTERS A DAY

dictated in Washington typewritten in New York



AN important permanent Government Bureau* is doing this-with SoundScriber (the equipment that handles all sound-recording problems of business) -it's electronic!

Here's how: The letters are recorded on 7-inch light, unbreakable plastic discs in Washington where stenographers are at a premium.

Then the discs (30 wafer-light discs) are mailed first-class to New York where typists transcribe the letters-749 letters a day, accurate, foolproof, economical, efficient.

If you have any kind of correspondence or recording problem, you will find SoundScriber the remarkable new, electronic way to solve it. Yes, more than a thousand great U. S. producers of war goods have turned to SoundScribing to Name on request after Victory

save time and prevent costly mistakes.

YOU CAN BUY SoundScribers, if you are engaged in essential war activity, to record labor-management and other meetings, negotiations, conferences, personnel interviews, field reports, 'live voice" correspondence. For these

and dozens of other uses Sound-Scriber does the job at much less cost, and with complete accuracy.

WIRE OR WRITE for complete information. The Sound-Scriber Corporation, New Haven 11, Connecticut, Dept. B-2.



SOUND IN AN ENVELOPE best describes a Sound -Scribed 7" disc. Featherlight plastic; unbreak-able; can be filed or mailed like a letter at letter postage.

UND/CRIBE SOUND IN AN ENVELOPE

IT'S ELECTRONIC



WOOLEN INDUSTRY

There are many reasons why Maine is an important producer of woolen goods-of blankets, plush, drapery materials and suitings.

Maine, for one thing, offers the industry an endless supply of the purest, finest processing water available. Maine also offers a reservoir of loyal, skilled textile craftsmen, and abundant low-cost electric and water power. Taxes are low: unexcelled transportation facilities connect Maine, overnight, with the world's richest market. Maine aids industry . . . and is glad to help select available plants and plant sites for those interested.

It will pay you to consider Maine's advantages in your present and post-war plans. Write today for your free copy of "INDUSTRIAL MAINE." It's packed with valuable profit-data based on facts.

Address: Maine Development Commission, Room 10-B, State House, Augusta, Maine.



MARKETS

Stocks last week for a time bumped on the previous bottoms established during the rather abrupt drop which immediately succeeded the sharp but shortlived mid-September rally. Price averages, however, did not go through those resistance levels, as so many had expected, and this factor seems to have raised some hopes that the market may, after all, have brighter days ahead. In any event, prices have been rising slowly ever since.

• Old Enthusiasm Gone-Volume has also been rising a bit but, as yet, only by fits and starts. In fact, since activity on the buying side has yet to equal the trading volume seen recently when stocks were having moments of real weakness, some authorities are looking at the present rally with a rather jaundiced eye.

One of the few things the Street seems to agree on currently is that the enthusiasm and confidence so responsible for the earlier 1943 bull market have long since evaporated. Moreover, the inflation fear, once such a potent market factor, is much less conspicuous than earlier.

• Two "Positive" Schools-Some chart readers, previously on the fence, now think they see signals indicating that resumption of the 1942-43 rise is in the offing. One investment counsel service is said to be forecasting a resumption in November of the earlier bull market.

Other equally strong predictions can be obtained on the other side. Another investment counsel service, for example, is now recommending that clients get their portfolios in an "all-out" cash position. Also, some sources say many professional trading accounts have been steadily reducing long lines and that some, in fact, are already out of the market.

• New Offerings Go Well-The Street, generally, firmly believes that eventually, like last spring, a definite preference properties over cash will again be sh Also, brokers are impressed by the formly favorable reception being gr October's many new financing operation and the "special offerings" on the st exchange floor. Nevertheless, they see a very definite lack of any dyna force in the market.

h alle

terial

dexce

ssions

ntend

nefici

ental

Dates

tgrow

Inve

Two d In

nd to

nd a

npal

Special situations still are among few causes of excitement. American tilling shares offer a good example, ing been, in fact, something of a sen tion. Selling at only around \$25 so three weeks ago, that issue has since he climbing by leaps and bounds, no some \$7 in the first two days of this we to come close to the \$43 level.

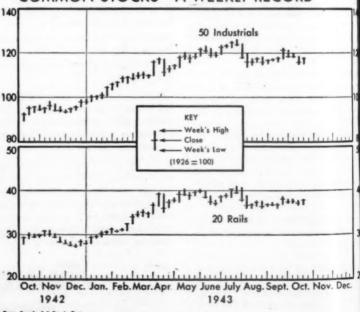
The sharp upturn was accompanied rumors that the company might bought out by one of the larger distill companies because of American tilling's relatively comfortable warchor stocks, especially since its purchase the T. W. Samuels distillery (BW-A 24'43,p32). The Street mentions I tillers-Seagrams as the possible but citing need for additional inventory keep dealers happy.

Security Price Averages

	Week Ago		Y
Stocks			
Industrial117.7	115.6	121.3	99
Railroad 37.8	37.2	38.2	20
Utility 50.9	50.2	52.0	25
Bonds			
Industrial 118.4	117.3	116.9	111
Railroad 98.5	98.1	98.6	8
Utility115.6			10
U. S. Govt113.0			11

Data: Standard & Poor's Corp. except government bonds which are from the Fe eral Reserve Bank of New York.

COMMON STOCKS—A WEEKLY RECORD



ed & Poor's Corp

arges that remain to be heard, the C undertook earlier to support these th allegations of misrepresentation of terial facts; failure to state material ts; exaction of double loading charges; dexcessive fees, deductions, and comissions. In general, the commission that various dealings were neficial to one company but detriental to the others.

preference

being gr

on the s

less, they

any dynar

re among

American

cvample, l

ng of a sea

nd \$25 so

has since be

ounds, ni

s of this we

companied

y might rger distill

nerican I

le wareho

BW-A

entions I

ssible but

inventory

ges

Month

Ago

121.3

38.2

52.0

98.6 115.7

113.1 1

p. except :

23,

k

116.9 11

gain be sh

Dates Back to 1940—The case is an altgrowth of passage of the Investment ompany Act in 1940. Certificates sold Investors Syndicate since 1925 (10-d 15-year instalment payment certifites bearing 3% to 5½% interest) do't qualify under this law.

Two subsidiaries—Investors Mutual ad Investors Syndicate of America—ere formed to issue certificates that ere similar but which would qualify. In the reduce the amount of Investors indicate certificates outstanding (they ere burdensome because interest on a company's own investments was eclining), the SEC asserts a special fier was made to holders to induce the subsidiaries. The SEC's charges inge on the nature of this transaction.

After 150 Years

One of oldest U.S. firms, bunded by Alexander Hamilton and always tax free, will be sold by New Jersey city.

The Society for Establishing Useful Interprises is unusual in many ways. It is one of the country's oldest corporations, dating back to 1791. It was bunded by Alexander Hamilton. And there has paid any local taxes, thanks of an ancient and extravagant charter thich was issued by the state of New ersey.

ersey.

City to Take Over—But this tax immunity has finally proved its undoing.
The city of Paterson, home of most of
the society's endeavors in modern times,
as arranged to buy it out.

Today, the principal activity of the society for Establishing, etc., is generation and distribution of electric energy in the Paterson area. Under an arrangement approved by Chancery Court and the legislature, Paterson will launch multipal ownership of light and power by purchasing physical assets recently assessed at \$1,387,500 (reputedly worth about \$4,000,000) for \$450,000. Other properties, chiefly eight factory buildings, the city presumably will undertake to dispose of to tax-paying industries. Hamilton's Idea—The society owes its

riamilton's idea—I he society owes its sistence to Hamilton's interest in building home industry (Britain had discourged industrialization of the colonies). In 1791, while serving as Secretary of



... the greater the need for mechanical floor scrubbing equipment in general, and for the Finnell Combination Scrubber in particular. That machine reduces the man-hour time to one-tenth —and more in many cases—in providing clean and safer floors for workers.

The Finnell Combination Scrubber is a complete cleaning unit all in one. It scrubs . . . it rinses . . . and it dries the floor. And it needs but one operator!

With a cleaning capacity of 8,750 sq. ft. of floor per hour, it is possible for the *Finnell* Combination Scrubber to clean a floor area the size of a city block in less than eight hours. For ultra-vast war plants, where there are miles and miles of floors to be cleaned, there's a self-powered (cableless) model with a capacity up to 15,000 sq. ft. per hour!

For literature, free floor survey, or consultation, phone or write nearest *Finnell* branch or Finnell System, Inc., 3810 East St., Elkhart, Ind.



Pioneers and Specialists in

FLOOR-MAINTENANCE EQUIPMENT AND SUPPLIES

PRINCIPAL

CITIES

ADVERTISERS IN THIS ISSUE

Business Week-October 23, 1943

20311033 1100K OCIODOI 20
ACHESON COLLOIDS CORP 75
Acres - Witte & Burden ACME PATTERN & TOOL CO
FRANK ADAM ELECTRIC CO
Agency—MAJOE ADVERTISING AGENCY AIR REDUCTION SALES CO
ALLIS-CHALMERS MANUFACTURING
ALUMINUM COMPANY OF AMERICA 9
Agency—FULLER & SMITH & ROSS, INC. AMERICAN LUMBER & TREATING CO187
Agency—FULLER & SMITH & ROSS, INC. AMERICAN MACHINE & METALS, INC 47
Agency—L. W. RAMSEY CO. ANCHOR POST FENCE CO
BALDWIN LOCOMOTIVE WORKS 105
BANKERS TRUST CO
Agency—Cowan & Dengler, Inc. BEMIS BRO. BAG CO
Agency—GARDNER ADVERTISING CO. BRODERICK & BASCOM ROPE CO
BYRON WESTON CO
Agency—Watts Adventising Agency BYRON WESTON CO. Agency—Waltes B SNOW & STAFF, INC. THE PHILIP CAREY MFG. CO. Agency—Tibe S. C. Babe CO. THE CARPENTER STEEL CO. 104
CARRIER CORP. 10 Agency—CHAR. DALLAS REACH CO. CELANESE CELLULOID CORP. 70
THE CELOTEX CORP
CENTURY ELECTRIC CO. Agency—ORLENGH B. FRENCH & ASSOCIATES CHASE NATIONAL BANK OF THE CITY OF NEW YORK ASSOCIATION 45
CHASE NATIONAL BANK OF THE CITY
CHANGE DONAL CO.
CLAYTON MFG. CO
CLUES
Agency—SHELDON, QUICK & MCELROY, INC.
CROCKER-WHEELER ELECTRIC MFG.
Agency—Box 8 DURSTINE Co. DAVIDSON MFG. CORP. 29
ADVICED NO SERVINE CO. DAVIDSON MFG. CORP
MOTORS CORP 27 Agency—ARTHUR KUDNUR, INC.
DICTAPHONE CORP. 78 Agency—McCann-Ediceson, Inc. DISTILLATION PRODUCTS, INC. 28
Agency-KNOE REEVES ADVERTISING, INC.
DOUGLAS FIR PLYWOOD ASSOCIATION 42
DOW CHEMICAL CO
OBDORN, INC. EITEL-McCULLOUGH, INC. Agence—L. C. COLE, ABV. EMERSON ELECTRIC MFG. CO
Agency—Antenger Adventising Agency, Inc. ERIE RESISTOR CORP
Agency-W. S. HILL Co., INC.
Agency—Grace & Bement, Inc. FIDELITY MACHINE CO. 74 Agency—The Poland G. E. Ullman
Agency—THE FOLAND G. E. ULLMAN ORGANISATION
Agency—THIS TOLAND GL. E. ULLMAN OBSANISATION FINNELL SYSTEMS, INC
THE FOXEORO CO
Agency-Hoston-Notes Co. FRUEHAUF TRAILER CO
GFARE-MARSTON INC. 4
Agency—GRARD-MARSTON, INC. GENERAL ELECTRIC CO
Agency Batter, Barton, Dursting & Ordon N. Inc. GENERAL ELECTRIC CO
GENERAL ELECTRIC CO
Agency N. W. ATER & SON, INC.
HARDWARE MUTUAL CASUALTY CO 50 Agency—Roche, Williams & Cunningham,
HARTEORD STEAM BOILER INSPECTION
INS. CO
Agency—Howard Swink Advertising Agency

WM. E. HOOPER & SONS CO
Agency—Young & Bubicam, Inc.
HUNTER ELECTRO-COPYIST, INC
THE INTERNATIONAL NICKEL CO., INC. 63 Agency—MARSCHALE & PRATT CO.
IRON FIREMAN MANUFACTURING CO 115
THE KAYDON ENGINEERING CORP 67 Agency—ELAU-VAN PIETRESOM-DUNLAP ASSOC., INC.
MAINE DEVELOPMENT COMMISSION 112
Agency—N. W. ATRE & SON, INC. MANNING, MAXWELL AND MOORE, INC
Agence-Bridge & VARLET, INC.
Agency-Batten, Barton, Dursting & Osborn, Inc.
MARMON-HERRINGTON CO
THE GLENN L. MARTIN CO
Agency-Kircher, Lytle, Helton &
McGRAW-HILL BOOK CO., INC
MINNEAPOLIS-HONEYWELL REGULA-
TOR CO
Agency-QARDNER ADVERTISING CO.
Agency-Fuller & Smith & Ross, Inc. 43
NATIONAL STEEL CORP
NEW YORK CENTRAL SYSTEM
Agency—Hotck & Co. THE OHIO CRANKSHAFT CO
Agency—THE GRISWOLD-EBHLEMAN CO. OPERADIO MFG. CO
PERSONNA BLADE CO
PORTLAND CEMENT ASSOCIATION 52
Agency—ROCHE, WILLIAMS & CUNNYNGHAM, INC. THE WILLIAM POWELL CO
THE WILLIAM POWELL CO
AMERICA 30
Agency—CROIL & PRESERRY, INC. RADIO CORPORATION OF AMERICA 85 Agency—J. Walter Thompson Co.
REFINERS LUBRICATING CO
CO. Agency—Meldrum and Fewemite, Inc. REMINGTON RAND INC
Agency—Addison Vars, INC. RISING PAPER CO
Agency—J. M. MATHES, INC. ROGERS DIESEL & AHRCRAFT CORP 45 Agency—RICKARD AND CO. RUSSELL, BURDSALL & WARD BOLT &
Agency—James Thomas Chibung Co. JOSEPH T. RYERSON & SON, INC 21 Agency—Aubret, Moore & Wallace, Inc.
SHEFFIELD CORP
SHELL OIL CO
Agency—WITTS & BURDEN SHELL OIL CO. Agency—J. WALTER THOMPSON CO. THE SOUNDSCRIBER CORP
STANDARD PRESSED STEEL CO
STATE OF NORTH CAROLINA
SYLVANIA ELECTRIC PRODUCTS, INC 82
Agency—Botsprod-Constanting & Gardene
TODD CO., INC
Agency—THE MENNILL ANDERSON CO. TRUSCON STEEL CO
CORP2nd Cover
CORP
OSBORN, INC. WESTINGHOUSE ELECTRIC & MFG. CO. 26
OSBORN, INC. WESTINGHOUSE ELECTRIC & MFG, CO. 26 Agency—FULLER & SMITH & Boss, INC. WILKENING MFG, CO
Agency—GRAY & ROGERS

the Treasury, Hamilton wrote his a mous Report on Manufactures. The suiting action to the word, he organise the Society for Establishing Useful Exterprises.

Hamilton even wrote his own propectus soliciting subscriptions to the

\$500,000 authorized capital. He advis

Locations on the Delaware Rive were first considered since there "the Labour of an able bodied Man was obtainable . . . at from 25 to 28 Pound per annum" and women at "from 7 to 8 Pounds." However, the Great Falls of the Passaic River, where there was sheer drop of 70 feet, abundant wood equally cheap labor and living ("beef to mutton at 3½ and 4 pence per Lb.") wa finally chosen.

• Governor Honored—In Novembe, 1791, the society received its special charter from the State of New Jersey, In 1792, it established the town of Paterson, named after New Jersey's governor, and by 1793, following completion of necessary dams and reservoirs, the company's first cotton mill began output.

However, activities subsequently lagged. Similar undertakings, opened decades later, made New England into one of the nation's busiest manufacturing areas. Life was pumped into the society in the early 1800's, but it was never destined to achieve in full the goals aimed at by Hamilton.

• Business Changes—The society, in fact, soon abandoned manufacturing activities, confining its operations to the development of its real estate and waterpower interests. When water wheel went out of fashion as the main source of industrial motive power, the company wasn't slow in erecting hydroelectric and steam generating plants.

For many years, it has been primatily an electric power utility, although it still owns an old system of raceways, used in years past to carry water power to mills remote from the falls; eight factory buildings; and nineteen parcels of unimproved real estate plus valuable riparian rights on the Passaic River and its tributaries.

For some time, control of the society has been held by the New Jersey General Security Co. which now announces plans for sale and dissolution.

te his ses. The organized Jseful Er

own pm
as to the
le advise template
ge of profession
from sa
and threas
le earthe
le wire.
e—He we cation for
is thickly

YEAR AGO

STA OF \

are Rive there "the m was ob18 Pounds from 7 to be treat Falls here was a serie wood, ("beef & Lb.") was

November, ts special ew Jersey, vn of Paty's goverompletion voirs, the egan out-

sequently , opened cland into inufacturinto the ut it was full the

turing acns to the nd waterer wheels in source the comnydroelecits.

n primatthough it raceways, ter power ills; eight en parcels s valuable River and

ne society rsey Gennnounces

23, 1943

SINES EEK DEX